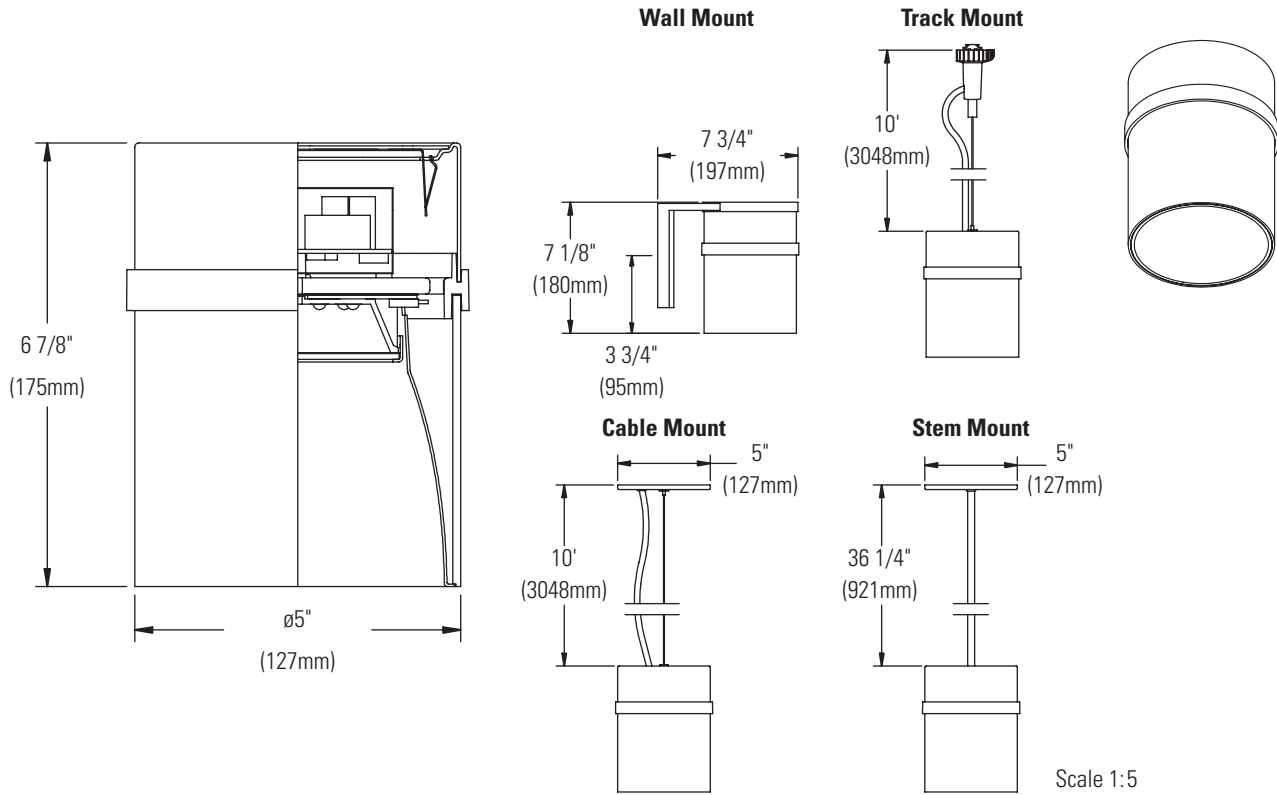


C4L10C

Calculite LED 4 1/2" Cylinder

Page 1 of 6



Ordering Guide: Cylinders

Light Engine Series	Style	Color	Color Temperature	Reflector Finish	Input Voltage
C4L10	C (Cylinder)	W = White	27K (2700K)	CCL (Comfort Clear)	1 (120V) 2 (277V)
		B = Black	30K (3000K)		
		A = Painted Aluminum	35K (3500K)		
			40K (4000K)		

Example: C4L10CW35KCCL1

Job Information	Type:
Job Name:	
Cat. No.:	
Notes:	

PHILIPS
LIGHTOLIER

C4L10C

Calculite LED 4 1/2" Cylinder

Page 2 of 6

Features

Input Wattage: 20W (+/- 5%)

Cylinder Housing: Aluminum. Suitable for mounting over 3" or 4" outlet box. Available in white, black, silver.

Mounting Capabilities: Ceiling, wall or track (see "Luminaire Options" below).

Reflector Cone: Aluminum. Provides 50° cutoff to source & source image. Self-flanged.

Power Connection: Attaches to frame-in kit via push-in connector (on frame). Removable cover provides access.

Technology

LED Board: Array of 8 high brightness royal blue LED's.

Remote Phosphor Technology: Remote phosphor technology provides increased efficiency and color consistency. Phosphor lens assembly positioned in front of LED array converts blue light to white. Color shift will not exceed +/- 100K over life.

Optical Mixing Chamber: Lightolier-specific mixing chamber redirects back-reflected light through aperture resulting in 20% increase in efficiency.

Thermal Management: Heat sink and thermal design along with clean room assembly ensures specified performance. 35°C maximum ambient environment

Rated Life: 50,000 hours at 70% lumen maintenance (L70)

Photometric Performance: Tested in accordance to IESNA LM-79-2008

Luminaire Options

Color Temperatures:

2700K 27K

3000K 30K

3500K 35K

4000K 40K

Reflector Finishes:

Comfort Clear CCL

Luminaire Options (continued)

Wall Mount (C4CW): Cast aluminum plate.

Suitable for mounting over 3" & 4" outlet boxes.

Track Mount (TM01): Suitable for Basic, Advent, Radius track systems. Silver color only. Cord: 18/3 AWM leads, 10 amps maximum. White color.

Cable Mount (C4CC): 5" round decorative plate. No visible hardware. Holds aircraft cable. Chrome adjusting hardware for leveling. Cord: 18/3 AWM leads, 10 amps maximum. White color.

Stem Mount (C4CP): 5" round decorative plate. No visible hardware. Cord: 18/3 AWM leads, 10 amps maximum. White color.

Dimming Capability: ELV. See LED-DIM specification sheet

Emergency Capability (Inverter): See LED-LMI specification sheet

Labels

UL (suitable for wet locations), cUL, I.B.E.W.

5 Year Warranty



Job Information	Type:
------------------------	--------------

PHILIPS

LIGHTOLIER

C4L10C

Calculite LED 4 1/2" Cylinder

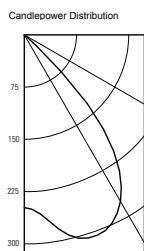


Reflector Finish Multipliers

CL (x 1.00), **CCL** (x 0.94), **CCD** (x 0.93), **CCZ** (x 0.76), **WH** (x 0.82) — **CL** & **CCD** finishes are tested.

CCL, **CCZ** & **WH** are calculated.

10W LED, 2700K, CL FINISH TRIM



ANGLE	MEAN CP	LUMENS
0	248	
5	258	26
10	283	
15	302	85
20	306	
25	338	136
30	276	
35	238	145
40	177	
45	75	61
50	7	
55	2	2
60	1	
65	1	1
70	0	
75	0	0
80	0	
85	0	0
90	0	

Trim: C410LEDDL27KCLW

Output lumens: 457 lm

Correlated Color Temp¹: 2700K

Input Watts²: 8.7 w

Efficacy: 52.5 lm/w

CR³: 80

Spacing Criterion: 1.3

CEILING WALL	80%				70%				50%				30%				0%			
	70	50	30	10	50	30	10	0	50	30	10	0	50	30	10	0	50	30	10	0
RCR	119	119	119	119	116	116	111	111	111	106	106	100	111	106	106	100	111	106	106	100
Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%	113	110	107	105	108	103	104	100	100	97	92	85	99	93	88	85	93	88	85	85
1	113	110	107	105	108	103	104	100	100	97	92	85	99	93	88	85	93	88	85	85
2	107	101	97	93	100	92	96	90	96	90	83	77	87	80	77	70	81	73	70	70
3	100	93	88	83	92	83	89	81	87	80	77	70	81	73	70	70	77	67	64	64
4	94	86	80	75	85	76	83	74	81	73	70	70	77	67	64	64	77	67	64	64
5	89	79	73	68	78	68	77	67	75	67	64	64	77	67	64	64	77	67	64	64
6	83	74	67	62	73	62	71	61	70	61	59	57	65	56	54	54	65	56	54	54
7	79	68	61	57	67	57	66	56	65	56	54	54	65	56	54	54	65	56	54	54
8	74	63	57	52	63	52	62	52	60	51	50	48	60	51	50	48	60	51	50	48
9	70	59	52	48	58	48	57	48	56	47	46	44	56	47	46	44	56	47	46	44
10	66	55	48	44	55	44	54	44	53	44	43	41	53	44	43	41	53	44	43	41

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	247	54.1%
0-40	283	85.0%
0-60	456	99.8%
0-90	457	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	10	7"
6'	7	8"
7'	5	9"
8'	4	10"
9'	3	13"

Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/Sq. Ft.
5'	21	0.39
6'	13	0.25
7'	10	0.18
8'	8	0.15
9'	6	0.12

38x38x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F099348³

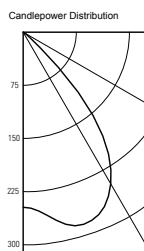
¹ Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid-State Lighting Products.

² Wattage controlled to within 5%.

³ Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

⁴ Color Rendering Index within +/- 2%.

10W LED, 2700K, CCL FINISH TRIM



ANGLE	MEAN CP	LUMENS
0	247	
5	254	25
10	270	
15	283	80
20	283	
25	272	124
30	247	
35	210	128
40	153	
45	70	57
50	15	
55	6	6
60	3	
65	2	2
70	1	
75	1	1
80	0	
85	0	0
90	0	

Trim: C410LEDDL27KCCLW

Output lumens: 423 lm

Correlated Color Temp¹: 2700K

Input Watts²: 8.7 w

Efficacy: 48.6 lm/w

CR³: 80

Spacing Criterion: 1.2

CEILING WALL	80%				70%				50%				30%				0%			
	70	50	30	10	50	30	10	0	50	30	10	0	50	30	10	0	50	30	10	0
RCR	119	119	119	119	116	116	111	111	111	106	106	100	111	106	106	100	111	106	106	100
Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%	113	110	107	102	108	103	104	100	100	97	92	84	99	93	88	84	93	88	84	84
1	113	110	107	102	108	103	104	100	100	97	92	84	99	93	88	84	93	88	84	84
2	106	101	97	93	99	92	96	90	96	90	83	77	87	80	77	70	81	73	70	70
3	100	93	87	83	92	82	89	81	86	80	77	70	81	73	70	70	77	67	64	64
4	94	86	80	75	85	74	82	73	80	73	70	70	77	67	64	64	77	67	64	64
5	89	79	73	68	78	67	76	67	75	67	64	64	77	67	64	64	77	67	64	64
6	83	73	66	62	72	61	71	61	69	61	59	57	65	56	54	54	65	56	54	54
7	78	68	61	56	67	56	66	56	65	56	54	54	65	56	54	54	65	56	54	54
8	74	63	56	52	62	52	61	51	60	51	50	49	60	51	50	49	60	51	50	49
9	70	59	52	48	58	47	57	47	56	47	46	44	56	47	46	44	56	47	46	44
10	66	55	48	44	54	44	53	44	53	44	43	41	53	44	43	41	53	44	43	41

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	228	54.0%
0-40	257	84.4%
0-60	420	99.4%
0-90	423	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	10	7"
6'	7	8"
7'	5	9"
8'	4	10"
9'	3	12"

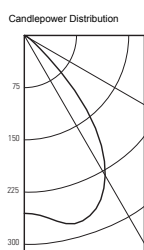
Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/Sq. Ft.
5'	19	0.39
6'	12	0.25
7'	9	0.18
8'	7	0.15
9'	6	0.12

38x38x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F099345³

10W LED, 2700K, CCD FINISH TRIM



ANGLE	MEAN CP	LUMENS
0	256	
5	259	26
10	271	
15	280	79
20	275	
25	260	118
30	232	
35	193	118
40	139	
45	74	59
50	29	
55	14	14
60	8	
65	5	5
70	3	
75	2	2
80	1	
85	0	0
90	0	

Trim: C410LEDDL27KCCDW

Output lumens: 421 lm

Correlated Color Temp¹: 2700K

Input Watts²: 8.7 w

Efficacy: 48.4 lm/w

CR³: 80

Spacing Criterion: 1.2

CEILING WALL	80%				70%				50%				30%				0%			
	70	50	30	10	50	30	10	0	50	30	10	0	50	30	10	0	50	30	10	0
RCR	119	119	119	119	116	116	111	111	111	106	106	100	111	106	106	100	111	106	106	100
Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%	113	110	107	104	107	102	103	99	99	96	92	87	99	93	88	84	93	88	84	84
1	113	110	107	104	107	102	103	99	99	96	92	87	99	93	88	84	93	88	84	84
2	106	100	96	92	99	91	95	89	92	87	83	77	87	80	77	70	81	73	70	70
3	100	92	86	82	91	81	88	80	85	79	76	70	81	73	70	70	77	67	64	64
4	93	85	78	73	84	73	81	72	79	71	69	64	77	67	64	64	77	67	64	64
5	88	78	71	66	77	66	75	65	73	65	63	63	73	65	63	63	73	65	63	63
6	82	72	65	60	71	60	70	60	68	59	57	57	65	56	54	54	65	56	54	54
7	77	67	60	55	66	55	65	55	63	54	52	52	63	54	52	52	63	54	52	52
8	73	62	55	51	61	50	60	50	59	50	48	48	59	50	48	48	59	50	48	48
9	69	58	51	47	57	46	56	46	55	46	44	44	55	46	44	44	55	46	44	44
10	65	54	47	43	53	43	53	43	52	43	41	41	52	43	41	41	52	43	41	41

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	223	82.8%
0-40	341	80.9%
0-60	414	98.3%
0-90	421	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	10	7"
6'	7	8"
7'	5	9"
8'	4	10"
9'	3	12"

Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/Sq. Ft.
5'	19	0.39
6'	12	0.25
7'	9	0.18
8'	7	0.15
9'	6	0.12

38x38

C4L10C

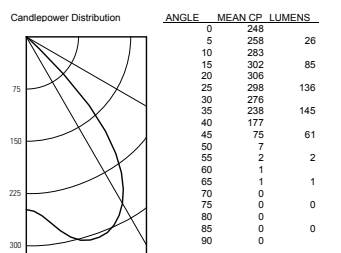
Calculite LED 4 1/2" Cylinder



Reflector Finish Multipliers

CL (x 1.00), **CCL** (x 0.94), **CCD** (x 0.93), **CCZ** (x 0.76), **WH** (x 0.82) — **CL & CCD** finishes are tested. **CCL, CCZ & WH** are calculated.

10W LED, 2700K, CL FINISH TRIM



Trim: C410LEDDL27KCCLW
 Output lumens: 457 lm
 Correlated Color Temp¹: 2700K
 Input Watts²: 8.7 w
 Efficacy: 52.5 lm/w
 CR³: 80
 Spacing Criterion: 1.3

CEILING WALL	80%				70%				50%				30%				0%
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%																
0	119	119	119	119	116	116	111	111	111	106	106	100	106	106	100	100	
1	113	110	107	105	108	103	104	100	100	97	92	85	100	97	92	85	
2	107	101	97	93	100	92	96	90	90	88	85	85	93	88	85	85	
3	100	93	88	83	92	83	89	81	81	87	80	77	87	80	77	77	
4	94	86	80	75	85	76	83	74	81	73	70	70	81	73	70	70	
5	89	79	73	68	78	68	77	67	75	67	64	64	75	67	64	64	
6	83	74	67	62	73	62	71	61	70	61	59	59	61	59	57	57	
7	79	68	61	57	67	57	66	56	65	56	54	54	56	56	54	54	
8	74	63	57	52	63	52	62	52	60	51	50	50	52	52	50	50	
9	70	59	52	48	58	48	57	48	56	47	46	46	48	48	46	46	
10	66	55	48	44	55	44	54	44	53	44	43	43	44	44	42	42	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	247	54.1%
0-40	283	85.0%
0-60	456	99.8%
0-90	457	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	10	7'
6'	7	9'
7'	5	10'
8'	4	12'
9'	3	13'

Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/Sq. Ft.
5'	21	0.39
6'	13	0.25
7'	10	0.18
8'	8	0.15
9'	6	0.12

38x38x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09934B³

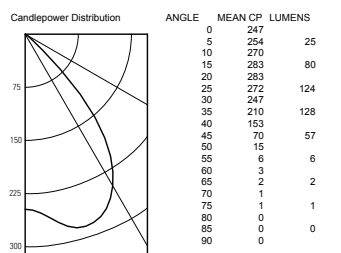
¹ Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid-State Lighting Products.

² Wattage controlled to within 5%.

³ Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

⁴ Color Rendering Index within +/- 2%.

10W LED, 2700K, CCL FINISH TRIM



Trim: C410LEDDL27KCCLW
 Output lumens: 423 lm
 Correlated Color Temp¹: 2700K
 Input Watts²: 8.7 w
 Efficacy: 48.6 lm/w
 CR³: 80
 Spacing Criterion: 1.2

CEILING WALL	80%				70%				50%				30%				0%
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%																
0	119	119	119	119	116	116	111	111	111	106	106	100	106	106	100	100	
1	113	110	107	102	108	103	104	100	100	97	92	85	100	97	92	85	
2	106	101	97	93	99	92	96	90	90	88	84	84	93	88	84	84	
3	100	93	87	83	92	82	89	81	81	86	80	77	86	80	77	77	
4	94	86	80	75	85	74	82	73	80	73	70	70	80	73	70	70	
5	89	79	73	68	78	67	76	67	75	67	64	64	75	67	64	64	
6	83	73	66	62	72	61	71	61	69	61	59	59	61	59	57	57	
7	78	68	61	56	67	56	66	56	65	56	54	54	56	56	54	54	
8	74	63	56	52	62	52	61	51	60	51	49	49	51	51	49	49	
9	70	59	52	48	58	47	57	47	56	47	46	46	48	48	46	46	
10	66	55	48	44	54	44	53	44	53	44	43	43	44	44	42	42	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	228	54.0%
0-40	257	84.4%
0-60	420	99.4%
0-90	423	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	10	7'
6'	7	8'
7'	5	9'
8'	4	10'
9'	3	12'

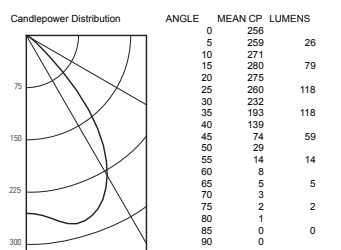
Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/Sq. Ft.
5'	19	0.39
6'	12	0.25
7'	9	0.18
8'	7	0.15
9'	6	0.12

38x38x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09935³

10W LED, 2700K, CCD FINISH TRIM



Trim: C410LEDDL27KCCLW
 Output lumens: 421 lm
 Correlated Color Temp¹: 2700K
 Input Watts²: 8.7 w
 Efficacy: 48.4 lm/w
 CR³: 80
 Spacing Criterion: 1.2

CEILING WALL	80%				70%				50%				30%				0%
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%																
0	119	119	119	119	116	116	111	111	111	106	106	100	106	106	100	100	
1	113	109	107	104	107	102	103	99	99	96	92	85	99	96	92	85	
2	106	100	96	92	99	91	95	89	89	87	83	83	92	87	83	83	
3	100	92	86	82	91	81	88	80	80	85	79	76	85	79	76	76	
4	93	85	78	73	84	73	81	72	79	71	69	69	79	71	69	69	
5	88	78	71	66	77	66	75	65	75	65	63	63	75	65	63	63	
6	82	72	65	60	71	60	70	60	68	59	57	57	68	59	57	57	
7	77	67	60	55	66	55	65	55	65	55	54	54	55	54	52	52	
8	73	62	55	51	61	50	60	50	59	50	48	48	59	50	48	48	
9	69	58	51	47	57	46	56	46	55	46	44	44	48	46	44	44	
10	65	54	47	43	53	43	53	43	52	43	41	41	44	43	41	41	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	223	52.8%
0-40	341	80.9%
0-60	414	98.3%
0-90	421	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	10	7'
6'	7	8'
7'	5	9'
8'	4	10'
9'	3	12'

Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/Sq. Ft.
5'	19	0.39
6'	12	0.25
7'	9	0.18
8'	7	0.15
9'	6	0.12

38x38x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09936³

Job Information Type:

PHILIPS

LIGHTOLIER

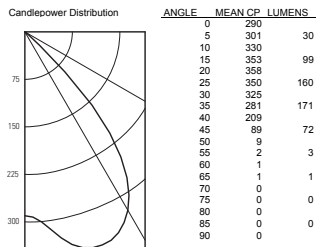
Calculite LED 4 1/2" Cylinder



Reflector Finish Multipliers

CL (x 1.00), **CCL** (x 0.94), **CCD** (x 0.93), **CCZ** (x 0.76), **WH** (x 0.82) — **CL** & **CCD** finishes are tested. **CCL**, **CCZ** & **WH** are calculated.

10W LED, 3500K, CL FINISH TRIM



Trim: C410LEDDL35KCLW
Output lumens: 537 lm
Correlated Color Temp¹: 3500K
Input Watts²: 8.7 w
Efficacy: 61.7 lm/w
CR³: 76
Spacing Criterion: 1.3

CEILING	80%				70%				50%				30%				0%
WALL	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%																
0	119	119	119	119	116	116	111	111	106	106	106	106	100	100	100	100	100
1	113	110	107	105	108	103	104	100	100	97	92	88	84	80	77	74	70
2	107	101	97	93	99	92	96	90	93	88	84	80	77	74	70	67	64
3	100	93	88	83	92	83	89	81	87	80	77	74	70	67	64	61	59
4	94	86	80	75	85	75	83	74	81	73	70	67	64	61	59	56	54
5	89	79	73	68	78	68	77	67	75	67	64	61	58	55	53	50	48
6	83	73	67	62	73	62	71	61	70	61	59	56	53	50	48	45	42
7	78	68	61	57	67	56	66	56	65	56	54	51	48	45	42	40	38
8	74	63	56	52	63	52	61	52	60	51	50	47	44	41	39	36	34
9	70	59	52	48	58	48	57	47	56	47	46	43	40	37	35	32	30
10	66	55	48	44	54	44	54	44	54	44	53	44	44	42	41	38	36

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	290	54.0%
0-40	461	85.9%
0-60	536	99.8%
0-90	536	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	12	7"
6'	8	9"
7'	6	10"
8'	5	12"
9'	4	13"

Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/Sq. Ft.
5'	22	0.39
6'	15	0.25
7'	11	0.18
8'	9	0.15
9'	8	0.12

38"x38"x10" Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09951B³

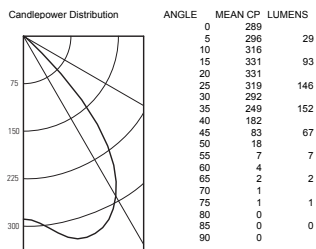
¹ Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid-State Lighting Products.

² Wattage controlled to within 5%.

³ Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

⁴ Color Rendering Index within +/- 2%.

10W LED, 3500K, CCL FINISH TRIM



Trim: C410LEDDL35KCLW
Output lumens: 499 lm
Correlated Color Temp¹: 3500K
Input Watts²: 8.7 w
Efficacy: 57.4 lm/w
CR³: 76
Spacing Criterion: 1.2

CEILING	80%				70%				50%				30%				0%
WALL	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%																
0	119	119	119	119	116	116	111	111	106	106	106	106	100	100	100	100	100
1	113	110	107	105	108	103	104	100	100	97	92	88	84	80	77	74	70
2	106	101	97	93	99	92	96	90	93	88	84	80	77	74	70	67	64
3	100	93	87	83	92	82	89	81	86	80	77	74	70	67	64	61	59
4	94	86	79	75	84	74	82	73	80	72	70	67	64	61	59	56	54
5	88	79	72	68	78	67	76	67	74	66	64	61	58	55	53	50	48
6	83	73	66	62	72	61	71	61	69	60	58	55	52	49	47	44	42
7	78	68	61	56	67	56	66	56	65	56	54	51	48	45	42	40	38
8	74	63	56	52	62	51	61	51	60	51	50	47	44	41	39	36	34
9	69	59	52	47	58	47	57	47	56	47	46	43	40	37	35	32	30
10	66	55	48	44	54	44	54	44	54	44	53	44	44	42	41	38	36

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	296	59.3%
0-40	420	84.3%
0-60	495	99.3%
0-90	499	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	12	7"
6'	8	9"
7'	6	10"
8'	5	10"
9'	4	12"

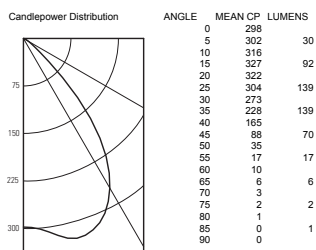
Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/Sq. Ft.
5'	22	0.39
6'	15	0.25
7'	11	0.18
8'	9	0.15
9'	7	0.12

38"x38"x10" Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09952³

10W LED, 3500K, CCD FINISH TRIM



Trim: C410LEDDL35KCCDW
Output lumens: 495 lm
Correlated Color Temp¹: 3500K
Input Watts²: 8.7 w
Efficacy: 56.9 lm/w
CR³: 76
Spacing Criterion: 1.2

CEILING	80%				70%				50%				30%				0%
WALL	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%																
0	119	119	119	119	116	116	111	111	106	106	106	106	100	100	100	100	100
1	113	109	107	104	107	102	103	99	99	96	92	87	83	80	76	73	70
2	106	100	96	92	99	91	95	89	92	87	83	79	76	73	70	67	64
3	100	92	86	82	91	81	88	80	85	78	76	73	70	67	64	61	59
4	93	85	78	73	83	73	81	72	79	71	69	66	63	60	57	54	52
5	88	78	71	66	77	66	75	65	73	65	63	60	57	54	52	49	46
6	82	72	65	60	71	60	70	60	68	59	57	54	51	48	46	43	41
7	77	67	60	55	66	55	65	54	63	54	52	49	46	43	41	38	36
8	73	62	55	50	61	50	60	50	59	50	48	45	42	39	37	34	32
9	69	58	51	46	57	46	56	46	55	46	44	41	38	35	33	30	28
10	65	54	47	43	53	43	52	43	52	43	52	43	43	42	41	38	36

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0-30	260	52.5%
0-40	400	80.7%
0-60	486	98.2%
0-90	495	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	12	7"
6'	8	9"
7'	6	9"
8'	5	10"
9'	4	12"

Multiple Unit Data - RCR 2

Spacing On Ctr.	Initial Footcandles	Watts/Sq. Ft.
5'	22	0.39
6'	14	0.25
7'	10	0.18
8'	9	0.15
9'	7	0.12

38"x38"x10" Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09953³

Job Information Type:



C4L10C

Calculite LED 4 1/2" Cylinder

Reflector Finish Multipliers

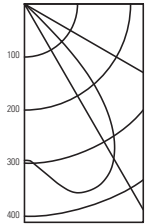
CL (x 1.00), **CCL** (x 0.94), **CCD** (x 0.93), **CCZ** (x 0.76), **WH** (x 0.82) — **CL** & **CCD** finishes are tested. **CCL**, **CCZ** & **WH** are calculated.



10W LED, 4000K, CL FINISH TRIM

Candlepower Distribution

ANGLE	MEAN CP	LUMENS
0	296	
5	312	31
10	344	
15	369	104
20	374	
25	366	167
30	340	
35	295	181
40	222	
45	102	80
50	11	
55	3	3
60	1	
65	1	1
70	0	
75	0	0
80	0	
85	0	0
90	0	



Trim:
C410LEDDL40KCLW

Output lumens: 568 lm

Correlated Color Temp¹: 4000K

Input Watts²: 8.7 w

Efficacy: 65.3 lm/w

CRF³: 76

Spacing Criterion: 1.3

CEILING	80%				70%				50%				30%				0%			
	WALL	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	
RCR	Zonal	Cavity	Method	Effective	Floor	Cavity	Reflectance = 20%													
0	119	119	119	119	116	116	111	111	106	106	100	100	100	100	100	100	100	100	100	
1	113	110	107	105	108	103	104	100	100	97	92	86	86	80	77	70	64	54	49	
2	106	101	97	93	99	92	96	90	93	88	86	80	77	70	64	54	49	45	42	
3	100	93	88	83	92	82	89	81	86	80	77	70	64	54	49	45	42	42	42	
4	94	86	80	75	85	74	82	73	80	73	70	64	54	49	45	42	42	42	42	
5	89	79	73	68	78	67	76	67	75	66	64	55	54	49	45	42	42	42	42	
6	83	73	66	62	72	61	71	61	69	61	58	54	49	45	42	42	42	42	42	
7	78	68	61	56	67	56	66	56	64	55	54	49	45	42	42	42	42	42	42	
8	74	63	56	52	62	51	61	51	60	51	49	45	42	42	42	42	42	42	42	
9	69	59	52	47	58	47	57	47	56	47	45	42	42	42	42	42	42	42	42	
10	65	55	48	44	54	44	53	43	52	43	42	42	42	42	42	42	42	42	42	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	302	53.5%
0-40	483	85.1%
0-60	567	99.8%
0-90	568	100.0%

Single Unit Data

Height to Lighted Plane	Initial Footcandles	Beam Diameter
5'	12	7"
6'	8	9"
7'	6	10"
8'	5	12"
9'	4	13"

Multiple Unit Data - RCR 2

Spacing	Initial Footcandles	Watts/Sq. Ft.
5'	25	0.39
6'	17	0.25
7'	12	0.18
8'	10	0.15
9'	8	0.12

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F09321³

- ¹ Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid-State Lighting Products.
- ² Wattage controlled to within 5%.
- ³ Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
- ⁴ Color Rendering Index within +/- 2%.



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C4L10C November 30, 2011

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Job Information Type: