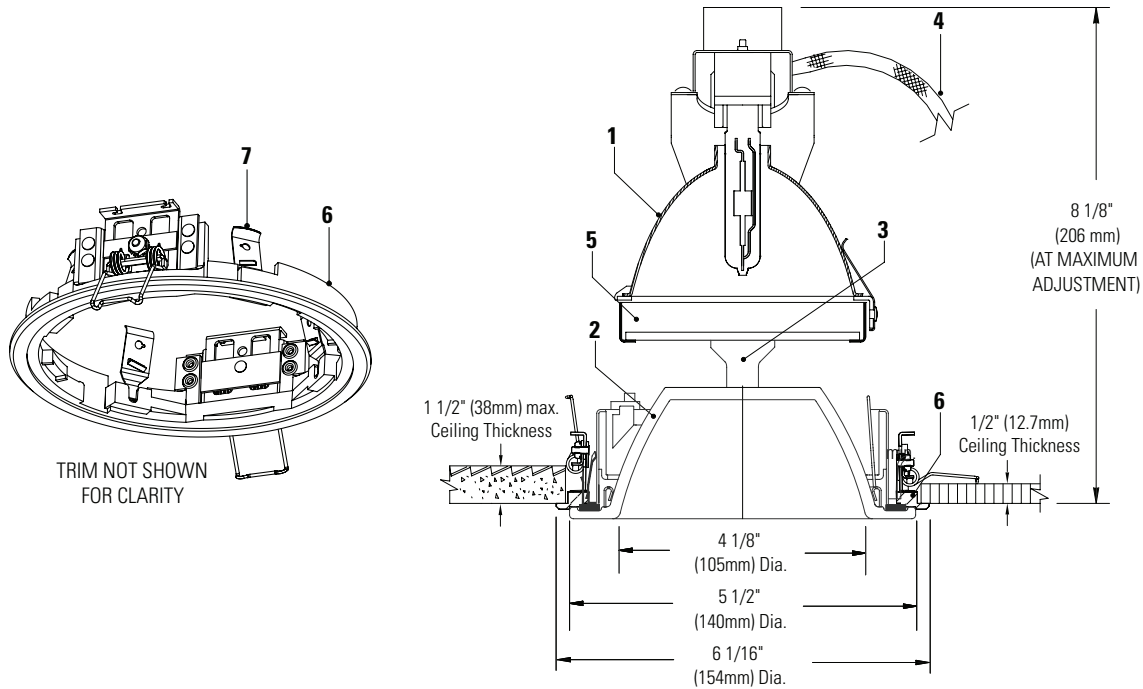


# LIGHTOLIER® HID Downlight C4T4GDEXP-MHT4R

Page 1 of 2

4 1/2" Aperture, T4 G8.5 Metal Halide Glasslite, For Export



**Ceiling Cutout:** 5 3/4" (146 mm) Dia.

For Complete Fixture Order: Reflector Trim + Upper Reflector + Installation Ring + Gear Harness

### Ordering Information

Reflector Trim	Upper Reflector	Installation Ring	Gear Harness	Lamp Data
C4T4GDEXP Etched glass with matching flange	MHT4RS (Spot) MHT4RNF (Nar Flood) MHT4RF (Flood)	C4XRM	BKT4U20 BKT4U39 BKT4U70	CDM-TC G8.5 70W Max

### Features

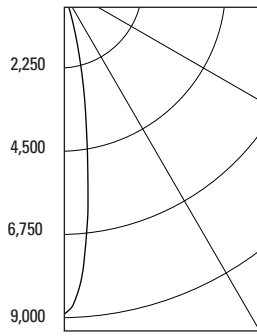
- Upper Reflector:** Specular faceted aluminum; select 12° Spot (MHT4RS) 25° Narrow Flood (MHT4RNF) or 40° Flood (MHT4RF); interchangeable.
- Glasslite Trim:** One piece borosilicate etched glass.
- Lamp Holder:** Unitized construction assures proper alignment of lamp to optics for consistent optical performance.
- Gear Harness:** Electronic 240V, 50/60Hz metal halide ballast with lamp socket and wiring harness. ORDER SEPARATELY. See separate specification sheet for details.
- Optional Accessory Holder:** Sold separately catalog # CAH4; die-formed steel, matte black finish, slide-in installation. Accepts up to two 3 3/4" dia. media.
- Installation Ring:** Cast aluminum ring is painted and has two 17ga. stainless steel springs that engage in upright position during installation. One touch snap action secures ring in ceiling cutout. ORDER SEPARATELY. See separate specification sheet for details.
- Trim Retention Springs:** Rust resistant springs secure reflector/housing for quick, toolless installation (quantity of 4).



Job Information	Type:
<b>Job Name:</b>	
<b>Cat. No.:</b>	
<b>Lamp(s):</b>	
<b>Notes:</b>	

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710  
 We reserve the right to change details of design, materials and finish.  
 www.lightolier.com © 2008 Philips Group • A0908

**39W T4.5 CERAMIC MH, NARROW FLOOD UPPER REFLECTOR, PHILIPS, LUMEN RATING = 3400 LMS., AROMAT ELECTRONIC BALLAST**



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ.M
0	8996		45	7690
5	7584			
10	4322		55	6459
15	2225		65	3966
20	1047		75	2612
25	452		85	0
30	169			
35	81			
40	53			
45	39			
50	32			
55	26			
60	20			
65	12			
70	7			
75	5			
80	3			
85	0			
90	0			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1459	42.92	91.95
0-40	1515	44.58	95.5
0-60	1569	46.16	98.88
0-90	1587	46.68	100
40-90	71	2.1	4.5
60-90	17	0.52	1.12
90-180	0	0	0
0-180	1587	46.68	100

**Coefficients of Utilization**

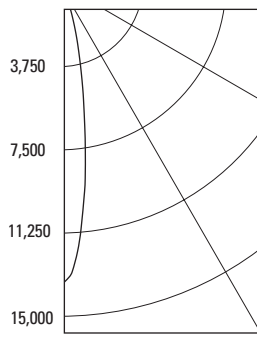
CEILING	80%				70%				50%				30%			
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
0	.56	.56	.56	.56	.54	.54	.52	.52	.50	.50	.47	.47	.47	.47	.47	.47
1	.54	.53	.52	.51	.52	.51	.50	.49	.48	.48	.48	.48	.48	.48	.48	.48
2	.52	.51	.50	.49	.50	.48	.49	.47	.47	.46	.46	.46	.46	.46	.46	.46
3	.51	.49	.48	.47	.48	.46	.47	.46	.46	.46	.46	.46	.46	.46	.46	.46
4	.50	.48	.46	.45	.47	.45	.46	.44	.45	.44	.44	.44	.44	.44	.44	.44
5	.49	.46	.45	.43	.46	.43	.45	.43	.44	.42	.42	.42	.42	.42	.42	.42
6	.48	.45	.43	.42	.45	.42	.44	.42	.44	.42	.42	.42	.42	.42	.42	.42
7	.46	.44	.42	.41	.44	.41	.43	.41	.43	.41	.41	.41	.41	.41	.41	.41
8	.46	.43	.41	.40	.43	.40	.42	.40	.42	.40	.40	.40	.40	.40	.40	.40
9	.45	.42	.41	.39	.42	.39	.42	.39	.42	.39	.41	.39	.41	.39	.39	.39
10	.44	.41	.40	.38	.41	.38	.41	.38	.41	.38	.40	.38	.40	.38	.38	.38

LUMINAIRE INPUT WATTS = 44

\*\* EFFICIENCY = 46.7% \*\*  
SC = .3

CERTIFIED TEST REPORT NO. 18678FR, DATE: APRIL 2, 2004.  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

**70W T4.5 CERAMIC MH, NARROW FLOOD UPPER REFLECTOR, PHILIPS, LUMEN RATING = 6200 LMS., AROMAT ELECTRONIC BALLAST**



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ.M
0	13659		45	15547
5	11121	915		
10	6556		55	13566
15	3509	990	65	9819
20	1859		75	6013
25	942	441	85	2289
30	400			
35	177	125		
40	105			
45	78	62		
50	65			
55	55	49		
60	43			
65	29	30		
70	20			
75	11	12		
80	6			
85	1	2		
90	0			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	2346	37.85	89.35
0-40	2471	39.87	94.11
0-60	2502	41.65	98.32
0-90	2626	42.36	100
40-90	154	2.49	5.89
60-90	44	0.71	1.68
90-180	0	0	0
0-180	2626	42.36	100

**Coefficients of Utilization**

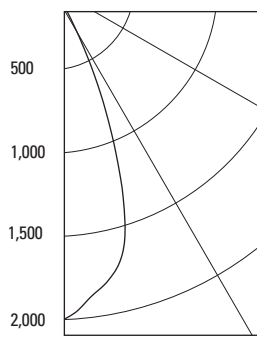
CEILING	80%				70%				50%				30%			
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
0	.50	.50	.50	.50	.49	.49	.47	.47	.45	.45	.42	.42	.42	.42	.42	.42
1	.49	.48	.47	.46	.47	.46	.45	.44	.44	.43	.41	.41	.41	.41	.41	.41
2	.47	.46	.45	.44	.45	.43	.44	.42	.43	.41	.40	.40	.40	.40	.40	.40
3	.46	.44	.43	.42	.44	.41	.43	.41	.42	.40	.39	.39	.39	.39	.39	.39
4	.45	.43	.41	.40	.42	.40	.41	.39	.41	.39	.38	.38	.38	.38	.38	.38
5	.44	.41	.40	.39	.41	.38	.40	.38	.40	.38	.37	.37	.37	.37	.37	.37
6	.43	.40	.39	.37	.40	.37	.39	.37	.39	.37	.36	.36	.36	.36	.36	.36
7	.41	.39	.37	.36	.39	.36	.38	.36	.38	.36	.35	.35	.35	.35	.35	.35
8	.41	.38	.36	.35	.38	.35	.37	.35	.37	.35	.34	.34	.34	.34	.34	.34
9	.40	.37	.36	.34	.37	.34	.37	.34	.37	.34	.34	.34	.34	.34	.34	.34
10	.39	.36	.35	.34	.36	.34	.36	.34	.36	.34	.34	.34	.34	.34	.34	.34

LUMINAIRE INPUT WATTS = 78

\*\* EFFICIENCY = 42.4% \*\*  
SC = .3

CERTIFIED TEST REPORT NO.18753FR, DATE: APRIL 2, 2004.  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

**39W T4.5 CERAMIC MH, FLOOD UPPER REFLECTOR, PHILIPS, LUMEN RATING = 3400 LMS. AROMAT ELECTRONIC BALLAST**



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ.M
0	1992		45	7192
5	1944	184		
10	1822		55	6459
15	1660	444	65	5333
20	1226		75	3973
25	706	322	85	2101
30	315			
35	139	95		
40	66			
45	36	31		
50	30			
55	26	23		
60	21			
65	16	16		
70	11			
75	7	8		
80	4			
85	1	2		
90	0			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	949	27.94	84.42
0-40	1045	30.74	92.9
0-60	1099	32.34	97.74
0-90	1125	33.09	100
40-90	79	2.35	7.1
60-90	25	0.75	2.26
90-180	0	0	0
0-180	1125	33.09	100

**Coefficients of Utilization**

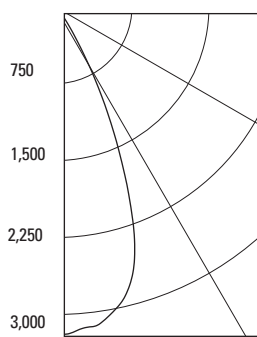
CEILING	80%				70%				50%				30%			
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
0	.39	.39	.39	.39	.37	.38	.38	.38	.35	.35	.33	.33	.33	.33	.33	.33
1	.38	.37	.37	.36	.35	.37	.37	.35	.34	.33	.32	.32	.32	.32	.32	.32
2	.37	.35	.34	.33	.33	.36	.35	.33	.33	.32	.30	.30	.30	.30	.30	.30
3	.35	.34	.33	.31	.32	.35	.33	.31	.32	.30	.29	.29	.29	.29	.29	.29
4	.34	.32	.31	.30	.30	.34	.32	.30	.31	.29	.28	.28	.28	.28	.28	.28
5	.33	.31	.30	.28	.29	.33	.31	.28	.30	.28	.27	.27	.27	.27	.27	.27
6	.32	.30	.28	.27	.28	.32	.30	.27	.29	.27	.26	.26	.26	.26	.26	.26
7	.31	.29	.27	.26	.27	.31	.29	.26	.28	.26	.25	.25	.25	.25	.25	.25
8	.30	.28	.26	.25	.26	.30	.27	.25	.27	.25	.24	.24	.24	.24	.24	.24
9	.29	.27	.25	.24	.25	.29	.27	.24	.26	.24	.24	.24	.24	.24	.24	.24
10	.28	.26	.24	.23	.24	.28	.26	.23	.25	.23	.23	.23	.23	.23	.23	.23

LUMINAIRE INPUT WATTS = 44

\*\* EFFICIENCY = 33.1% \*\*  
SC = .7

CERTIFIED TEST REPORT NO.18679FR, DATE: APRIL 2, 2004.  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

**70W T4.5 CERAMIC MH, FLOOD UPPER REFLECTOR, PHILIPS, LUMEN RATING = 6200 LMS., AROMAT ELECTRONIC BALLAST**



ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.	
			ANGLE	MEAN CD/SQ.M
0	3172		45	13385
5	3144	303		
10	3054		55	11655
15	2810	763	65	9620
20	2215		75	7313
25	1361	618	85	4282
30	668			
35	279	194		
40	125			
45	67	57		
50	55			
55	47	42		
60	39			
65	29	29		
70	20			
75	13	14		
80	8			
85	3	3		
90	0			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1684	27.16	83.2
0-40	1878	30.29	92.79
0-60	1977	31.9	97.71
0-90	2024	32.65	100
40-90	145	2.35	7.21
60-90	46	0.75	2.29
90-180	0	0	0
0-180	2024	32.65	100

**Coefficients of Utilization**

CEILING	80%				70%				50%				30%			
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10
WALL	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
0	.39	.39	.39	.39	.38	.38	.36	.36	.35	.35	.33	.33	.33	.33	.33	.33
1	.37	.37	.36	.35	.36	.35	.35	.34	.33	.33	.31	.31	.31	.31	.31	.31