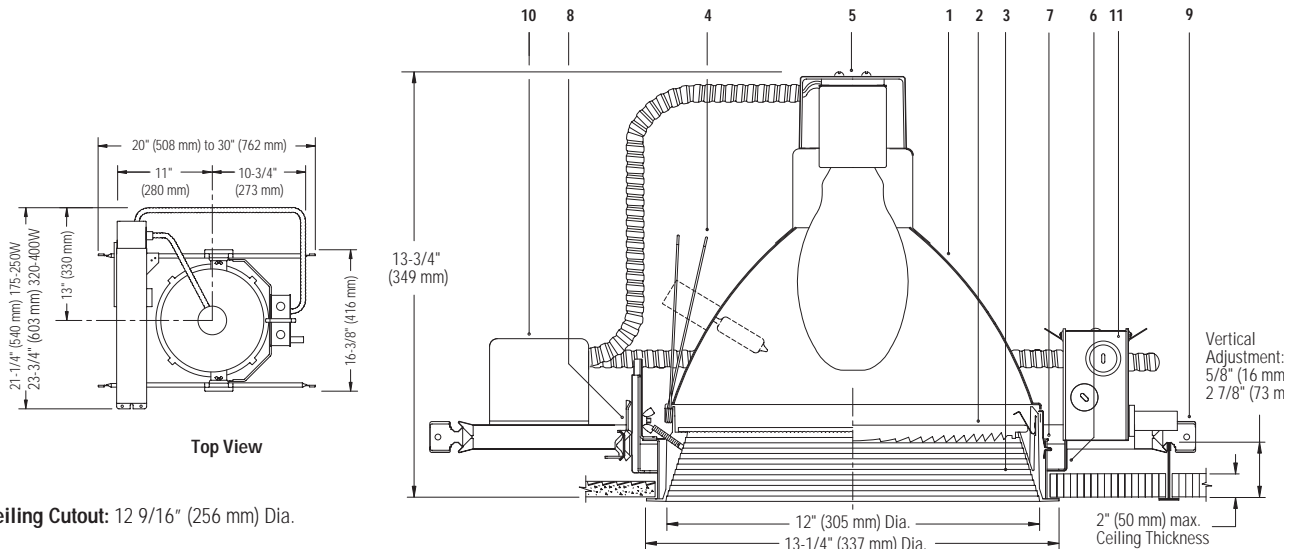




Calculite® HID Lensed Downlight C12E28FL-PL

Page 1 of 3

12" Aperture, ED28 (Enclosed), Metal Halide, Prismatic or Fresnel Lens



Ceiling Cutout: 12 9/16" (256 mm) Dia.

Reflector Trim	Frame-In Kit	Lamp (Enclosed, Coated)
C12E28PLWHW Prismatic Lens, White Step Baffle.	C1217MHPU Magnetic, 120V/277V Pulse Start	175W ED28, BT28 PS MH
C12E28FLWHW Fresnel Lens, White Step Baffle.	C1225MHPU Magnetic, 120V/277V Pulse Start	250W ED28, BT28 PS MH
	C1232MHPU Magnetic, 120V/277V Pulse Start	320W ED28, BT28 PS MH
	C1240MHPU Magnetic, 120V/277V Pulse Start	400W ED28, BT28 PS MH
	C1217MHU Magnetic, 120V/277V	175W ED28, BT28 MH
	C1225MHU Magnetic, 120V/277V	250W ED28, BT28 MH
	C1240MHU Magnetic, 120V/277V	400W ED28, BT28 MH

Features

- Reflector:** Specular anodized aluminum, 16 ga. Removable from inside fixture for access to splices and ballast.
- Lens:** Prismatic (C12E28PLWHW) or Fresnel (C12E28FLWHW) lens. Regressed 2 1/4" from ceiling line.
- Die-Cast Baffle:** Painted white, deep conical step baffle for low brightness, supports lens. Small Allen-head set screw provides secure attachment for use where vandal resistant luminaires are required.
- Torsionite Springs:** Permit removal of lens assembly without tools.
- Socket Cup:** Heat dissipating die-cast aluminum with medium base pulse rated porcelain socket with nickel plated screw shell. Positive locking attachment, without tools, to reflector assures proper optical alignment of lamp.
- Mounting Frame:** 0.048" (18-ga.) galvanized steel, includes pre-installed mounting bars.
- Mounting Ring:** 0.048" (18-ga.) galvanized steel. Designed for vertical adjustment from above or below for ceilings from 0" to 2" thick. Center-line notches allow consistent alignment of multiple fixtures.
- Vertical Adjustment Mechanism:** accommodates mounting to virtually any ceiling system using mounting bars (provided, or 1/2" EMT tubing (by others). Single locking feature secures all adjustments. Alignment holes and markings allow fixture to be preset prior to installation.
- Mounting Bars:** 0.048" (18-ga.) pre-installed, telescoping bars extend to 30" long; lock securely into position. Built-in locking tabs provide positive attachment to common T-bar systems. Self-centering feature simplifies installation in 24" O.C. grid systems. Attaches to steel/wood joists without accessories.
- Ballast:** Dual voltage (120V/277V) magnetic. Assembly is accessible from below without tools for inspection and replacement.
- Junction Box:** 0.048" (18-ga.) galvanized steel. UL listed for maximum of (8) No. 12 AWG, 90°C through branch circuit conductors; allows inspection from below
- Thermal Protector:** (not shown) Meets NEC and UL requirements. Do not install insulation above nor within 3" (76mm) of any part of the luminaire.

Electrical

Magnetic Ballast: 120/277V dual voltage, 60 Hz., encased and potted, CWA or Super CWA (pulse start) circuit type, high power factor, sound rating "B" (175W and 250W PS)/sound rating "C" (others), -20°F minimum starting Temperature, Type 1 Outdoor rating.

Electrical (Cont.)

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
175W PS MH	M137	120/277	2.20/0.90	205
250W PS MH	M138	120/277	2.80/1.20	290
320W PS MH	M132	120/277	3.40/1.50	370
400W PS MH	M135	120/277	4.10/1.80	465
175W MH	M57	120/277	2.00/0.90	205
250W MH	M58	120/277	2.60/1.10	290
400W MH	M59	120/277	3.90/1.70	460

Options and Accessories

Auxiliary: Add suffix **A** to Frame-In Kit and Reflector Trim. See Spec. Sheet "A".
Emergency: Add suffix **E** to Reflector Trim and Frame-In Kit. See Spec. Sheet "E".
Slope Ceiling Adapters: See Specification Sheet SCA.
Fuse (magnetic ballast): Add suffix **F1** or **F2** to Frame in Kit (F1=120V, F2=277V).
Chicago Plenum: Consult Factory.

Labels

UL (Suitable for Wet Locations), CSA (magnetic ballast only), I.B.E.W.
 For 320W/400W, install fixtures with minimum spacing: 4 feet from center-to-center of adjacent luminaires; 3 inch from top of luminaire to over-head building member; 2 feet from luminaire center to side building member.

Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

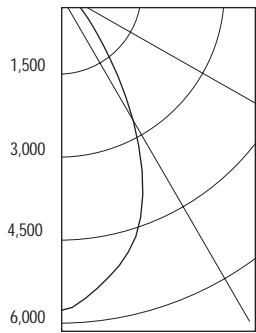
Lightolier a Genlyte Thomas Company www.lightolier.com
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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LIGHTOLIER®



Calculite® HID Lensed Downlight C12E28FL-PL

FRESNEL LENS/ WHITE BAFFLE - 175W ED28 G.E. METAL HALIDE COATED LAMP. LUMEN RATING = 12900 LMS., ADVANCE BALLAST



ANGLE	MEAN CP	LUMENS
0	8996	
5	5781	
10	5575	529
15	5247	
20	4882	1372
25	4348	
30	3584	1647
35	2713	
40	1883	1214
45	1250	
50	859	692
55	608	
60	448	414
65	341	
70	259	263
75	201	
80	142	141
85	47	
90	14	20

LUMINANCE SUMMARY - CD. / SQ. M.	
ANGLE	MEAN CD/SQ M
45	601630
55	387161
65	303788
75	271565
85	79179

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	3547	27.5	56.38
0-40	4761	36.91	75.68
0-60	5867	45.49	93.26
0-90	6292	48.78	100
40-90	1530	11.86	24.32
60-90	424	3.29	6.74
90-180	0	0	0
0-180	6292	48.78	100

Coefficients of Utilization

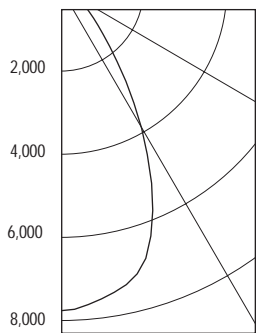
CEILING	80%				70%				50%				30%			
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10
WALL	0															
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
0	.58	.58	.58	.58	.57	.57	.54	.54	.52	.52	.49	.49	.47	.47	.45	.45
1	.55	.54	.52	.51	.53	.50	.50	.49	.49	.47	.45	.44	.43	.43	.41	.41
2	.52	.50	.48	.46	.49	.45	.47	.44	.46	.43	.40	.38	.36	.34	.33	.31
3	.49	.46	.43	.41	.45	.41	.44	.40	.43	.40	.37	.34	.32	.30	.28	.26
4	.47	.43	.40	.38	.42	.38	.41	.37	.40	.37	.34	.31	.29	.27	.25	.23
5	.44	.40	.37	.35	.39	.35	.39	.34	.38	.34	.31	.28	.26	.24	.22	.20
6	.42	.37	.34	.32	.37	.32	.36	.32	.36	.32	.29	.26	.24	.22	.20	.18
7	.40	.35	.32	.30	.35	.30	.34	.29	.33	.29	.26	.24	.22	.20	.18	.16
8	.38	.33	.30	.28	.32	.27	.32	.27	.31	.27	.24	.22	.20	.18	.16	.14
9	.36	.31	.28	.26	.30	.26	.30	.25	.30	.25	.22	.20	.18	.16	.14	.12
10	.34	.29	.26	.24	.29	.24	.28	.24	.28	.24	.21	.19	.17	.15	.13	.11

LUMINAIRE INPUT WATTS = 205

** EFFICIENCY = 48.8% **
SC = .9

CERTIFIED TEST REPORT NO. 2554FR, DATE: MAR 21, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

FRESNEL LENS/ WHITE BAFFLE - 250W ED28 PHILIPS METAL HALIDE COATED LAMP. LUMEN RATING = 19475 LMS., UNIVERSAL BALLAST



ANGLE	MEAN CP	LUMENS
0	7764	
5	7645	728
10	7434	
15	7120	1986
20	6350	
25	5182	2386
30	3901	
35	2741	1763
40	1841	
45	1276	1026
50	908	
55	668	617
60	506	
65	385	391
70	299	
75	210	209
80	71	
85	21	31
90	0	

LUMINANCE SUMMARY - CD. / SQ. M.	
ANGLE	MEAN CD/SQ M
45	893382
55	576797
65	450887
75	400904
85	120690

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	5099	26.18	55.82
0-40	6861	35.23	75.11
0-60	8504	43.67	93.1
0-90	9135	46.91	100
40-90	2273	11.67	24.89
60-90	630	3.24	6.9
90-180	0	0	0
0-180	9135	46.91	100

Coefficients of Utilization

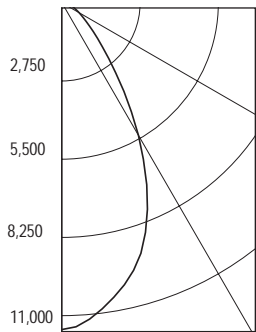
CEILING	80%				70%				50%				30%			
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10
WALL	0															
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
0	.56	.56	.56	.56	.55	.55	.52	.52	.50	.50	.47	.47	.45	.45	.43	.43
1	.53	.51	.50	.49	.51	.48	.49	.47	.47	.45	.42	.41	.41	.38	.37	.35
2	.50	.48	.46	.44	.47	.43	.45	.42	.44	.41	.38	.36	.34	.33	.31	.29
3	.47	.44	.42	.40	.43	.39	.42	.39	.41	.38	.35	.33	.31	.29	.27	.25
4	.45	.41	.38	.36	.41	.36	.40	.36	.39	.35	.33	.31	.29	.27	.25	.23
5	.42	.38	.35	.33	.38	.33	.37	.33	.36	.32	.29	.27	.25	.23	.21	.19
6	.40	.36	.33	.31	.35	.31	.35	.30	.34	.30	.27	.25	.23	.21	.19	.17
7	.38	.33	.30	.28	.33	.28	.33	.28	.32	.28	.25	.23	.21	.19	.17	.15
8	.36	.31	.28	.26	.31	.26	.30	.26	.30	.26	.23	.21	.19	.17	.15	.13
9	.34	.29	.26	.24	.29	.24	.29	.24	.28	.24	.21	.19	.17	.15	.13	.11
10	.32	.28	.25	.23	.27	.23	.27	.23	.27	.23	.20	.18	.16	.14	.12	.10

LUMINAIRE INPUT WATTS = 290

** EFFICIENCY = 46.9% **
SC = .9

CERTIFIED TEST REPORT NO. 2557FR, DATE: MAR 21, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

FRESNEL LENS/ WHITE BAFFLE - 320W ED28 PHILIPS METAL HALIDE COATED LAMP. LUMEN RATING = 30100 LMS., ADVANCE BALLAST



ANGLE	MEAN CP	LUMENS
0	10463	
5	10298	981
10	10043	
15	9696	2715
20	8873	
25	7298	3355
30	5523	
35	3882	2497
40	2614	
45	1810	1456
50	1287	
55	953	878
60	724	
65	557	564
70	433	
75	307	311
80	128	
85	31	52
90	1	

LUMINANCE SUMMARY - CD. / SQ. M.	
ANGLE	MEAN CD/SQ M
45	1267525
55	822644
65	652886
75	588204
85	177806

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	7050	23.42	55.05
0-40	9547	31.72	74.54
0-60	11882	39.47	92.77
0-90	12808	42.55	100
40-90	3260	10.83	25.46
60-90	926	3.08	7.23
90-180	0	0	0
0-180	12808	42.55	100

Coefficients of Utilization

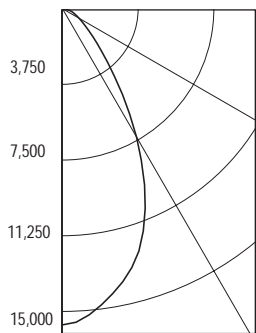
CEILING	80%				70%				50%				30%			
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10
WALL	0															
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
0	.51	.51	.51	.51	.49	.49	.47	.47	.45	.45	.43	.43	.41	.41	.39	.39
1	.48	.47	.45	.44	.46	.44	.44	.42	.42	.41	.38	.40	.37	.36	.34	.33
2	.45	.43	.41	.40	.42	.39	.41	.38	.40	.37	.34	.33	.31	.30	.28	.26
3	.43	.40	.38	.36	.39	.35	.38	.35	.37	.34	.31	.29	.27	.25	.23	.21
4	.41	.37	.35	.33	.37	.32	.36	.32	.35	.32	.29	.27	.25	.23	.21	.19
5	.38	.35	.32	.30	.34	.30	.34	.30	.33	.30	.27	.25	.23	.21	.19	.17
6	.36	.32	.30	.28	.32	.28	.31	.27	.31	.27	.24	.22	.20	.18	.16	.14
7	.34	.30	.27	.26	.30	.25	.29	.25	.29	.25	.22	.20	.18	.16	.14	.12
8	.33	.28	.25	.24	.28	.24	.27	.23	.27	.23	.20	.18	.16	.14	.12	.10
9	.31	.26	.24	.22	.26	.22	.26	.22	.25	.22	.19	.17	.15	.13	.11	.09
10	.29	.25	.22	.20	.25	.20	.24	.20	.24	.20	.17	.15	.13	.11	.09	.07

LUMINAIRE INPUT WATTS = 370

** EFFICIENCY = 42.6% **
SC = .9

CERTIFIED TEST REPORT NO. 2558FR, DATE: MAR 21, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

FRESNEL LENS/ WHITE BAFFLE - 400W ED28 G.E. METAL HALIDE COATED LAMP. LUMEN RATING = 35000 LMS. ADVANCE BALLAST



ANGLE	MEAN CP	LUMENS
0	15666	
5	15225	1443
10	14335	
15	13279	3728
20	11715	
25	9625	4433
30	7341	
35	5183	3331
40	3500	
45	2420	1946
50	1711	
55	1256	1160
60	950	
65	719	731
70	559	
75	396	394
80	138	
85	41	60
90	0	

LUMINANCE SUMMARY - CD. / SQ. M.	
ANGLE	MEAN CD/SQ M
45	1695165
55	1084702
65	842680
75	758600
85	235481

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	9603	27.44	55.75
0-40	12933	36.95	75.08
0-60	16040	45.83	93.12
0-90	17225	49.22	100
40-90	4291	12.26	24.92
60-90	1185	3.39	6.88
90-180	0	0	0
0-180	17225	49.22	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	0															
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
0	.59	.59	.59	.59	.57	.57	.55	.55	.52	.52	.49	.49	.47	.47	.45	.45
1	.56	.54	.53	.51	.53	.51	.51	.49	.49	.48	.45	.44	.43	.41	.40	.38
2	.52	.50	.48	.46	.49	.45	.47	.44	.46	.44	.41	.39	.37	.36	.34	.32
3	.50	.46	.44	.42	.46	.41	.44	.41	.43	.40	.37	.35	.33	.31	.29	.27
4	.47	.43	.40	.38	.43	.38	.42	.37	.41	.37	.34	.32	.30	.28	.26	.24
5	.45	.40	.37													



Calculite® HID Lensed Downlight C12E28FL-PL

12" Aperture, ED28 (Enclosed), Metal Halide or Prismatic Fresnel Lens

PRISMATIC LENS- 175W ED28 G.E. METAL HALIDE COATED LAMP. LUMEN RATING = 12900 LMS., ADVANCE BALLAST

ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.		Coefficients of Utilization											
			ANGLE	MEAN CD/SQ M	80%		70%		50%		30%					
0	6780		45	536031	CEILING											
5	6578	620	55	303825	WALL	70	50	30	10	50	10	50	10	50	10	0
10	6049	1492	65	227960	RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
15	5291		75	152040	0	.56	.56	.56	.56	.55	.55	.52	.52	.50	.50	.47
20	4420		85	61798	1	.53	.52	.51	.50	.51	.49	.49	.48	.47	.46	.44
25	3463	1605			2	.51	.49	.47	.45	.48	.45	.46	.44	.45	.43	.41
30	2522	1121			3	.48	.45	.43	.41	.45	.41	.43	.40	.42	.40	.38
35	1734				4	.46	.43	.40	.38	.42	.38	.41	.37	.40	.37	.36
40	1149	620			5	.44	.40	.37	.35	.39	.35	.39	.35	.38	.34	.33
45	765				6	.42	.38	.35	.33	.37	.33	.36	.32	.36	.32	.31
50	522	331			7	.39	.35	.32	.31	.35	.30	.34	.30	.34	.30	.29
55	352	192			8	.38	.33	.30	.29	.33	.28	.32	.28	.32	.28	.27
60	248	88			9	.36	.31	.29	.27	.31	.27	.31	.26	.30	.26	.26
65	195	16			10	.34	.30	.27	.25	.29	.25	.29	.25	.29	.25	.24
70	138				LUMINAIRE INPUT WATTS = 205											
75	79															
80	36															
85	11															
90	0															

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	3716	28.81	61.08
0-40	4837	37.5	79.51
0-60	5788	44.87	95.13
0-90	6084	47.17	100
40-90	1246	9.66	20.49
60-90	296	2.3	4.87
90-180	0	0	0
0-180	6084	47.17	100

** EFFICIENCY = 47.2% **
SC = .8

CERTIFIED TEST REPORT NO. 2555FR, DATE: MAR 21, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

PRISMATIC LENS- 250W ED28 PHILIPS METAL HALIDE COATED LAMP. LUMEN RATING = 19475 LMS., UNIVERSAL BALLAST

ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.		Coefficients of Utilization											
			ANGLE	MEAN CD/SQ M	80%		70%		50%		30%					
0	8614		45	852701	CEILING											
5	8519	808	55	483130	WALL	70	50	30	10	50	10	50	10	50	10	0
10	8224		65	361094	RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
15	7721	2162	75	246762	0	.56	.56	.56	.56	.55	.55	.53	.53	.50	.50	.47
20	6846		85	111021	1	.54	.52	.51	.50	.51	.49	.49	.48	.47	.46	.44
25	5413	2503			2	.51	.49	.47	.45	.48	.44	.46	.43	.45	.43	.41
30	3961	1768			3	.48	.45	.43	.41	.45	.41	.43	.40	.42	.39	.38
35	2739				4	.46	.42	.40	.38	.42	.37	.41	.37	.40	.37	.35
40	1818	984			5	.44	.40	.37	.35	.39	.35	.38	.34	.37	.34	.33
45	1217	526			6	.41	.37	.34	.32	.37	.32	.36	.32	.35	.32	.31
50	830	306			7	.39	.35	.32	.30	.35	.30	.34	.30	.33	.29	.29
55	560	142			8	.37	.33	.30	.28	.32	.28	.32	.28	.31	.28	.27
60	398	27			9	.35	.31	.28	.26	.30	.26	.30	.26	.30	.26	.25
65	308				10	.34	.29	.26	.24	.29	.24	.28	.24	.28	.24	.23
70	220				LUMINAIRE INPUT WATTS = 290											
75	129															
80	60															
85	20															
90	0															

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	5473	28.11	59.32
0-40	7241	37.19	78.48
0-60	8752	44.94	94.85
0-90	9227	47.38	100
40-90	1986	10.2	21.52
60-90	475	2.44	5.15
90-180	0	0	0
0-180	9227	47.38	100

** EFFICIENCY = 47.4% **
SC = .9

CERTIFIED TEST REPORT NO. 2556FR, DATE: MAR 21, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

PRISMATIC LENS - 320W ED28 PHILIPS METAL HALIDE COATED LAMP. LUMEN RATING = 30100 LMS., ADVANCE BALLAST

ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.		Coefficients of Utilization											
			ANGLE	MEAN CD/SQ M	80%		70%		50%		30%					
0	14920		45	1177083	CEILING											
5	14486	1365	55	665377	WALL	70	50	30	10	50	10	50	10	50	10	0
10	13317		65	499041	RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
15	11664	3290	75	332156	0	.53	.53	.53	.53	.52	.52	.49	.49	.47	.47	.44
20	9775		85	103373	1	.50	.49	.48	.47	.48	.46	.46	.45	.45	.43	.41
25	7649	3544			2	.48	.46	.44	.42	.45	.42	.44	.41	.42	.40	.39
30	5553	2463			3	.46	.43	.41	.39	.42	.39	.41	.38	.40	.37	.36
35	3810				4	.43	.40	.38	.36	.40	.36	.39	.35	.38	.35	.34
40	2513	1358			5	.41	.38	.35	.33	.37	.33	.36	.33	.36	.32	.31
45	1681	725			6	.39	.35	.33	.31	.35	.31	.34	.31	.34	.30	.30
50	1138	425			7	.37	.33	.31	.29	.33	.29	.32	.29	.32	.28	.28
55	771	193			8	.36	.31	.29	.27	.31	.27	.31	.27	.30	.27	.26
60	554	31			9	.34	.30	.27	.25	.29	.25	.29	.25	.28	.25	.24
65	426				10	.32	.28	.25	.24	.28	.24	.27	.23	.27	.23	.23
70	306				LUMINAIRE INPUT WATTS = 370											
75	174															
80	78															
85	18															
90	0															

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	8198	27.24	61.21
0-40	10662	35.42	79.6
0-60	12744	42.34	95.15
0-90	13394	44.5	100
40-90	2732	9.08	20.4
60-90	649	2.16	4.85
90-180	0	0	0
0-180	13394	44.5	100

** EFFICIENCY = 44.5% **
SC = .8

CERTIFIED TEST REPORT NO. 2559FR, DATE: MAR 21, 2004
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PRISMATIC LENS - 400W ED28 G.E. METAL HALIDE COATED LAMP. LUMEN RATING = 35000 LMS. ADVANCE BALLAST

ANGLE	MEAN CP	LUMENS	LUMINANCE SUMMARY - CD. / SQ. M.		Coefficients of Utilization											
			ANGLE	MEAN CD/SQ M	80%		70%		50%		30%					
0	19667		45	1553151	CEILING											
5	19072	1798	55	869063	WALL	70	50	30	10	50	10	50	10	50	10	0
10	17547		65	652850	RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
15	15345	4328	75	432092	0	.60	.60	.60	.60	.59	.59	.56	.56	.54	.54	.50
20	12839		85	166222	1	.57	.56	.54	.53	.55	.52	.52	.51	.51	.49	.47
25	10059	4660			2	.54	.52	.50	.48	.51	.48	.49	.46	.48	.46	.44
30	7317	3251			3	.52	.48	.46	.44	.48	.44	.46	.43	.45	.42	.41
35	5028				4	.49	.45	.43	.41	.45	.40	.44	.40	.43	.39	.38
40	3325	1794			5	.47	.43	.40	.38	.42	.37	.41	.37	.40	.37	.36
45	2217	948			6	.45	.40	.37	.35	.40	.35	.39	.35	.38	.34	.33
50	1504	551			7	.42	.38	.35	.33	.37	.32	.37	.32	.36	.32	.31
55	1006	251			8	.40	.35	.33	.30	.35	.30	.35	.30	.34	.30	.29
60	712	44			9	.38	.33	.30	.28	.33	.28	.33	.28	.32	.28	.27
65	557				10	.36	.32	.29	.27	.31	.27	.31	.27	.31	.26	.26
70	395				LUMINAIRE INPUT WATTS = 460											
75	226															
80	103															
85	29															
90	0															

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	10786	30.82	61.2
0-40	14037	40.11	79.64
0-60	16779	47.94	95.2
0-90	17625	50.36	100
40-90	3588	10.25	20.36
60-90	846	2.42	4.8
90-180	0	0	0
0-180	17625	50.36	100

** EFFICIENCY = 50.4% **
SC = .8

CERTIFIED TEST REPORT NO. 2560FR, DATE: MAR 22, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

Job Information Type: