



IES INDOOR REPORT
PHOTOMETRIC FILENAME : EGL2-4-L400-850-HIA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] GEN FROM BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 31-JAN-2024
[TEST]BALLABS TEST NO. 21051.0
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] SEALED & GASKETED LED HIGHBAY LUMINAIRE
[MORE] WHITE REFLECTOR w/CLEAR ACRYLIC DROP LENS
[MORE] 0-10V DIMMING DRIVERS
[LUMCAT] EGL2-4-L400-850-HIA-DIM-UNV
[LAMPCAT] HLM 80 CRI 5000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	42553
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	271.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.25 ft
Luminous Width (90-270)	1.10 ft
Luminous Height	0.23 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	31694	24322	24298
55	28710	19801	25917
65	23304	22231	21059
75	13561	12558	15686
85	4682	8929	9820

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	14851.928	14851.928	14851.928	14851.928	14851.928
5	15024.903	14886.180	14644.699	14615.585	14598.458
10	14821.100	14605.309	14560.781	14538.516	14562.493
15	14488.850	14351.840	14425.483	14389.518	14374.104
20	14074.394	14009.314	13981.912	13968.211	13961.360
25	13533.203	13574.306	13497.237	13521.214	13534.915
30	12909.805	12901.242	12959.471	13012.563	13024.551
35	12166.524	12214.477	12238.454	12627.221	11664.723
40	11351.312	11356.450	12668.324	8160.682	8095.602
45	10304.895	10291.194	8890.263	7619.491	9051.250
50	9121.468	9205.386	6552.523	10116.506	9683.210
55	7737.662	8486.082	6263.088	8268.578	8407.301
60	6302.479	6047.297	7400.274	7163.931	7422.539
65	4793.651	3599.948	5723.610	5995.918	5610.576
70	3271.123	2610.048	4485.378	3920.210	3087.872
75	1839.365	1854.778	2395.969	2217.856	3142.676
80	786.097	1361.541	1205.692	1748.595	1798.262
85	287.722	613.122	1056.693	1327.288	1258.783
90	70.218	296.285	409.319	399.043	387.054
95	90.769	106.183	130.160	159.275	164.412
100	143.861	97.620	118.171	128.447	126.735
105	121.597	113.034	113.034	152.424	155.849
110	89.057	82.206	90.769	113.034	121.597
115	59.942	75.356	75.356	83.919	90.769
120	42.816	42.816	118.171	68.505	75.356
125	29.115	20.552	85.632	155.849	123.309
130	20.552	0.000	37.678	83.919	148.999
135	15.414	0.000	58.229	44.528	44.528
140	0.000	0.000	23.977	90.769	59.942
145	0.000	0.000	0.000	39.390	66.793
150	0.000	0.000	0.000	17.126	22.264
155	0.000	0.000	0.000	0.000	15.414
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5463.53	N.A.	12.80
0-30	11703.07	N.A.	27.50
0-40	19206.97	N.A.	45.10
0-60	33452.17	N.A.	78.60
0-80	41054.3	N.A.	96.50
0-90	42040.73	N.A.	98.80
10-90	40637.44	N.A.	95.50
20-40	13743.44	N.A.	32.30
20-50	20996.8	N.A.	49.30
40-70	19359.79	N.A.	45.50
60-80	7602.12	N.A.	17.90
70-80	2487.54	N.A.	5.80
80-90	986.44	N.A.	2.30
90-110	321.24	N.A.	0.80
90-120	402.02	N.A.	0.90
90-130	467.84	N.A.	1.10
90-150	510.61	N.A.	1.20
90-180	511.95	N.A.	1.20
110-180	190.70	N.A.	0.40
0-180	42552.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1403.29
10-20	4060.24
20-30	6239.53
30-40	7503.9
40-50	7253.37
50-60	6991.84
60-70	5114.58
70-80	2487.54
80-90	986.44
90-100	195.20
100-110	126.05
110-120	80.77
120-130	65.83
130-140	29.97
140-150	12.79
150-160	1.34
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	108	104	99	96	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	84	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	80	71	65	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	62	55	80	69	61	55	66	59	54	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	23.1	24.7	23.5	25.0	25.4	24.0	25.6	24.4	26.0	26.3
	3H	24.0	25.4	24.4	25.8	26.2	25.4	26.8	25.8	27.2	27.6
	4H	24.3	25.6	24.7	26.0	26.4	25.9	27.3	26.3	27.7	28.1
	6H	24.4	25.7	24.8	26.0	26.5	26.4	27.6	26.8	28.0	28.4
	8H	24.4	25.6	24.8	26.0	26.5	26.6	27.8	27.0	28.2	28.6
	12H	24.4	25.6	24.9	26.0	26.4	26.8	27.9	27.2	28.3	28.8

UGR Viewed Endwise

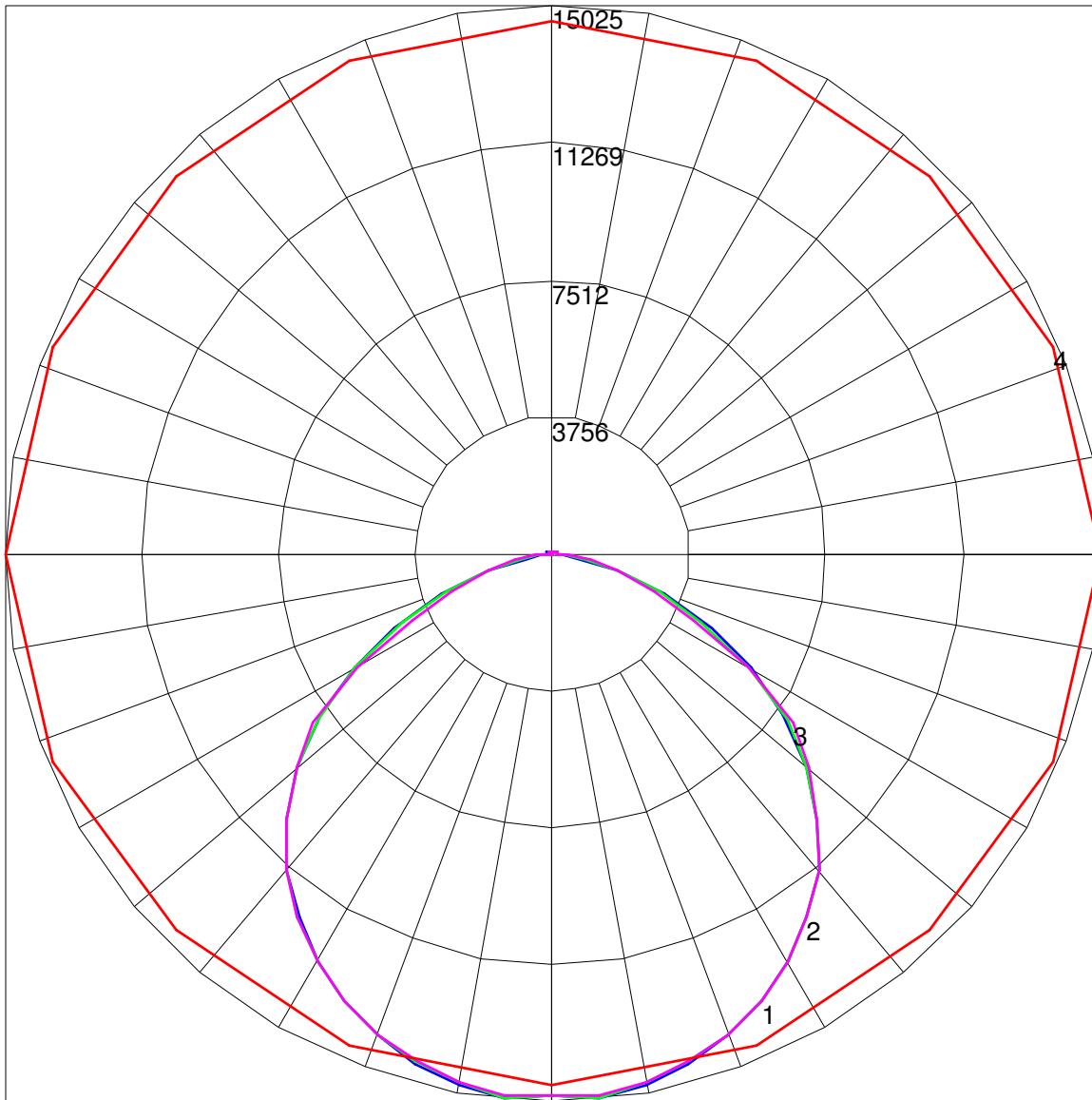
4H	2H	23.8	25.1	24.2	25.5	25.9	24.5	25.9	24.9	26.3	26.7
	3H	24.8	26.0	25.3	26.4	26.8	26.1	27.2	26.5	27.7	28.1
	4H	25.2	26.2	25.6	26.7	27.1	26.7	27.7	27.1	28.1	28.6
	6H	25.4	26.3	25.9	26.8	27.2	27.2	28.1	27.7	28.6	29.1
	8H	25.4	26.3	25.9	26.8	27.2	27.5	28.3	28.0	28.8	29.3
	12H	25.5	26.2	26.0	26.7	27.2	27.7	28.5	28.2	29.0	29.5

8H	4H	25.4	26.3	25.9	26.7	27.2	26.8	27.6	27.3	28.1	28.6
	6H	25.7	26.4	26.2	26.9	27.4	27.4	28.1	27.9	28.6	29.1
	8H	25.8	26.5	26.3	27.0	27.5	27.8	28.4	28.3	28.9	29.4
	12H	25.9	26.4	26.4	26.9	27.5	28.1	28.7	28.7	29.2	29.8

12H	4H	25.5	26.2	26.0	26.7	27.2	26.8	27.5	27.3	28.0	28.5
	6H	25.8	26.4	26.3	26.9	27.5	27.4	28.1	28.0	28.6	29.1
	8H	25.9	26.5	26.4	27.0	27.6	27.8	28.4	28.3	28.9	29.5

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 15024.903 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)