



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EGL2-4-L400-840-HIA-DRV-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] GEN FROM BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 17-APR-2023

[TEST]BALLABS TEST NO. 21051.0

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 52 INCH SEALED & GASKETED LED LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR ACRYLIC DROP LENS

[LUMCAT] EGL2-4-L400-840-HIA-DRV-UNV

[LAMPCAT] HLM 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	41314
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
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	30771	23614	23590
55	27874	19225	25162
65	22626	21584	20446
75	13166	12192	15230
85	4546	8669	9534

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EGL2-4-L400-840-HIA-DRV-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	14419.481	14419.481	14419.481	14419.481	14419.481
5	14587.420	14452.736	14218.286	14190.019	14173.392
10	14389.551	14180.043	14136.811	14115.195	14138.474
15	14066.975	13933.954	14005.453	13970.535	13955.570
20	13664.586	13601.401	13574.797	13561.495	13554.844
25	13139.153	13179.060	13104.235	13127.514	13140.816
30	12533.907	12525.594	12582.128	12633.673	12645.313
35	11812.268	11858.826	11882.104	12259.552	11325.079
40	11020.793	11025.781	11229.458	7923.066	7859.881
45	10004.845	9991.543	8631.403	7397.633	8787.702
50	8855.876	8937.351	6361.731	9821.941	9401.262
55	7512.363	8238.991	6080.724	8027.820	8162.504
60	6118.968	5871.216	7184.799	6955.338	7206.415
65	4654.074	3495.128	5556.954	5821.333	5447.212
70	3175.877	2534.051	4354.776	3806.065	2997.962
75	1785.807	1800.772	2326.205	2153.278	3051.170
80	763.208	1321.897	1170.585	1697.681	1745.901
85	279.344	595.269	1025.925	1288.641	1222.131
90	68.173	287.658	397.400	387.424	375.784
95	88.126	103.091	126.370	154.637	159.625
100	139.672	94.777	114.731	124.707	123.044
105	118.056	109.742	109.742	147.986	151.311
110	86.464	79.813	88.126	109.742	118.056
115	58.197	73.162	73.162	81.475	88.126
120	41.569	41.569	114.731	66.511	73.162
125	28.267	19.953	83.138	151.311	119.719
130	19.953	0.000	36.581	81.475	144.660
135	14.965	0.000	56.534	43.232	43.232
140	0.000	0.000	23.279	88.126	58.197
145	0.000	0.000	0.000	38.244	64.848
150	0.000	0.000	0.000	16.628	21.616
155	0.000	0.000	0.000	0.000	14.965
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EGL2-4-L400-840-HIA-DRV-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5304.45	N.A.	12.80
0-30	11362.31	N.A.	27.50
0-40	18647.71	N.A.	45.10
0-60	32478.14	N.A.	78.60
0-80	39858.91	N.A.	96.50
0-90	40816.62	N.A.	98.80
10-90	39454.19	N.A.	95.50
20-40	13343.26	N.A.	32.30
20-50	20385.43	N.A.	49.30
40-70	18796.08	N.A.	45.50
60-80	7380.77	N.A.	17.90
70-80	2415.11	N.A.	5.80
80-90	957.71	N.A.	2.30
90-110	311.89	N.A.	0.80
90-120	390.31	N.A.	0.90
90-130	454.22	N.A.	1.10
90-150	495.74	N.A.	1.20
90-180	497.04	N.A.	1.20
110-180	185.15	N.A.	0.40
0-180	41313.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1362.43
10-20	3942.02
20-30	6057.86
30-40	7285.41
40-50	7042.17
50-60	6788.26
60-70	4965.66
70-80	2415.11
80-90	957.71
90-100	189.51
100-110	122.38
110-120	78.42
120-130	63.91
130-140	29.10
140-150	12.42
150-160	1.30
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EGL2-4-L400-840-HIA-DRV-UNV_.IES

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

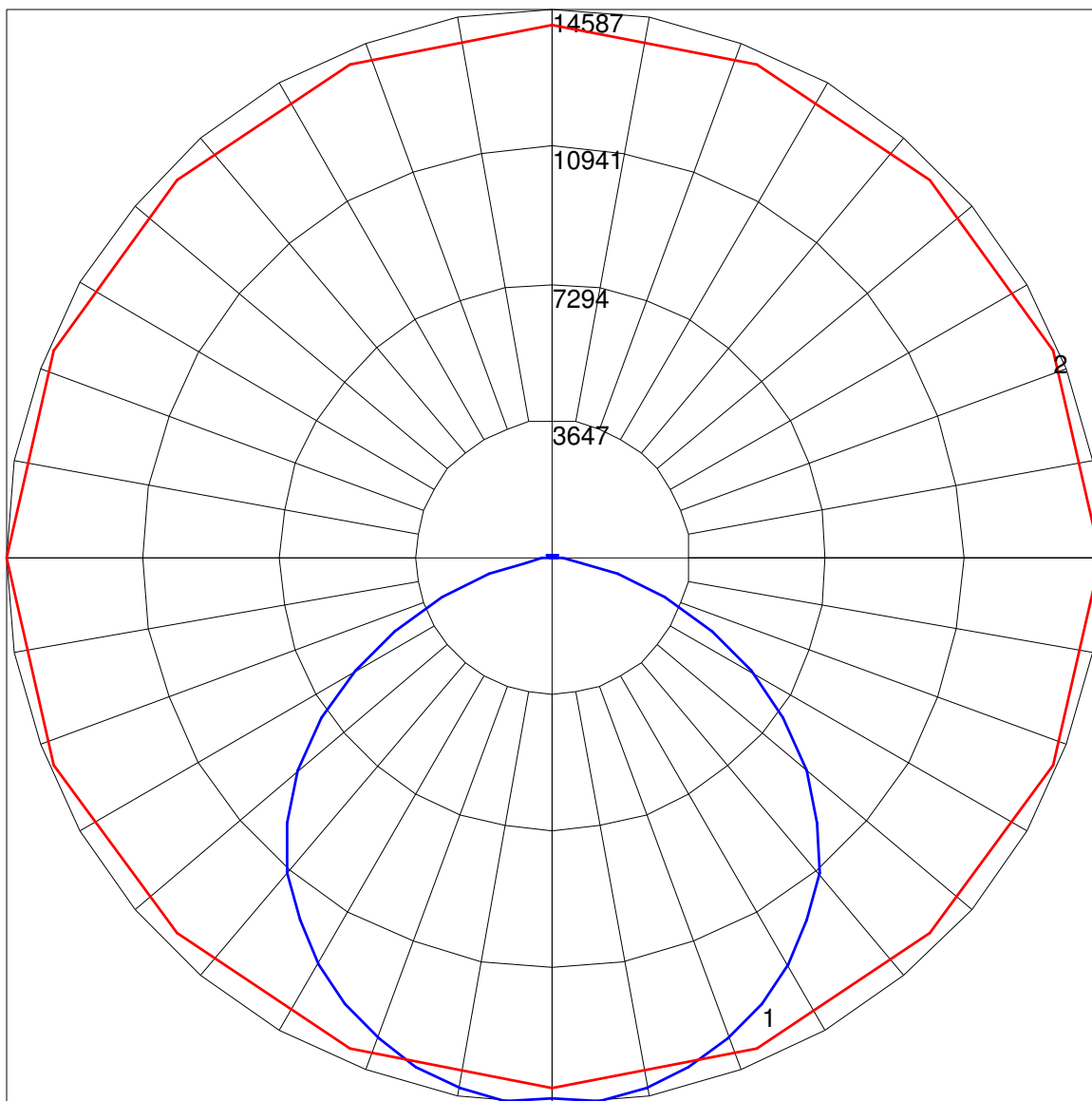
IES INDOOR REPORT
PHOTOMETRIC FILENAME : EGL2-4-L400-840-HIA-DRV-UNV_.IES

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					UGR Viewed Endwise				
X=2H	Y=2H	23.0	24.6	23.4	24.9	25.3	23.9	25.5	24.3	25.9	26.2
	3H	23.9	25.3	24.3	25.7	26.1	25.3	26.7	25.7	27.1	27.5
	4H	24.2	25.5	24.6	25.9	26.3	25.8	27.2	26.2	27.6	28.0
	6H	24.3	25.6	24.7	25.9	26.4	26.3	27.5	26.7	27.9	28.3
	8H	24.3	25.5	24.7	25.9	26.4	26.5	27.7	26.9	28.1	28.5
	12H	24.3	25.5	24.8	25.9	26.3	26.7	27.8	27.1	28.2	28.7
4H	2H	23.7	25.0	24.1	25.4	25.8	24.4	25.8	24.8	26.2	26.6
	3H	24.7	25.9	25.2	26.3	26.7	26.0	27.1	26.4	27.6	28.0
	4H	25.1	26.1	25.5	26.6	27.0	26.6	27.6	27.0	28.0	28.5
	6H	25.3	26.2	25.8	26.7	27.1	27.1	28.0	27.6	28.5	29.0
	8H	25.3	26.2	25.8	26.7	27.1	27.4	28.2	27.9	28.7	29.2
	12H	25.4	26.1	25.9	26.6	27.1	27.6	28.4	28.1	28.9	29.4
8H	4H	25.3	26.2	25.8	26.6	27.1	26.7	27.5	27.2	28.0	28.5
	6H	25.6	26.3	26.1	26.8	27.3	27.3	28.0	27.8	28.5	29.0
	8H	25.7	26.4	26.2	26.9	27.4	27.7	28.3	28.2	28.8	29.3
	12H	25.8	26.3	26.3	26.8	27.4	28.0	28.6	28.6	29.1	29.7
12H	4H	25.4	26.1	25.9	26.6	27.1	26.7	27.4	27.2	27.9	28.4
	6H	25.7	26.3	26.2	26.8	27.4	27.3	28.0	27.9	28.5	29.0
	8H	25.8	26.4	26.3	26.9	27.5	27.7	28.3	28.2	28.8	29.4

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 14587.42 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)