



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EGL2-4-L400-840-HIAFR-DRV-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 21052.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 17-APR-2023

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

[LUMINAIRE] 52 INCH SEALED & GASKETED LED LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC DROP LENS

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

[LAMPCAT] HLM 80 CRI 4000K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	40385
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	271.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
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	27869	23719	23327
55	23814	19960	21979
65	19478	17349	18955
75	13504	13723	15756
85	5886	9971	12183

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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	14387.974	14387.974	14387.974	14387.974	14387.974
5	14567.969	14341.308	14242.977	14206.312	14192.979
10	14364.641	14156.313	14079.648	14047.982	14036.316
15	13996.317	13836.321	13791.322	13777.989	13759.656
20	13552.995	13404.665	13339.667	13349.666	13303.001
25	12954.676	12778.014	12731.349	12713.016	12699.683
30	12241.361	12096.364	11989.700	11936.368	11808.038
35	11344.717	11199.720	11101.389	10784.731	10629.734
40	10256.410	10149.746	9991.417	9606.427	9543.095
45	9061.440	9143.105	8669.783	8599.785	8689.783
50	7788.139	7723.140	7461.480	7818.138	7959.801
55	6418.173	6343.175	6313.176	6983.159	7129.822
60	5091.539	5166.538	5389.865	6008.183	6176.512
65	4006.567	3971.567	4466.555	4988.209	5049.874
70	2806.597	2959.926	3551.578	3979.901	4058.232
75	1831.621	2041.616	2618.268	3019.925	3156.588
80	1001.642	1234.969	1844.954	2209.945	2308.276
85	361.658	661.650	1179.971	1486.630	1561.628
90	164.996	378.324	721.649	936.643	988.309
95	149.996	288.326	499.988	616.651	639.984
100	144.996	229.994	386.657	466.655	481.655
105	128.330	179.996	319.992	391.657	413.323
110	103.331	131.663	266.660	341.658	363.324
115	79.998	96.664	216.661	296.659	319.992
120	58.332	63.332	173.329	249.994	278.326
125	43.332	36.666	131.663	208.328	229.994
130	29.999	26.666	93.331	159.996	186.662
135	23.333	0.000	58.332	121.664	139.997
140	0.000	0.000	31.666	79.998	99.998
145	0.000	0.000	0.000	51.665	63.332
150	0.000	0.000	0.000	21.666	29.999
155	0.000	0.000	0.000	0.000	21.666
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	5258.6	N.A.	13.00
0-30	11135.7	N.A.	27.60
0-40	18019.07	N.A.	44.60
0-60	30753.54	N.A.	76.20
0-80	37931.64	N.A.	93.90
0-90	39167.36	N.A.	97.00
10-90	37808.04	N.A.	93.60
20-40	12760.46	N.A.	31.60
20-50	19571.6	N.A.	48.50
40-70	17192.76	N.A.	42.60
60-80	7178.09	N.A.	17.80
70-80	2719.81	N.A.	6.70
80-90	1235.72	N.A.	3.10
90-110	829.99	N.A.	2.10
90-120	1031.91	N.A.	2.60
90-130	1148.44	N.A.	2.80
90-150	1215.5	N.A.	3.00
90-180	1217.29	N.A.	3.00
110-180	387.30	N.A.	1.00
0-180	40384.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1359.32
10-20	3899.28
20-30	5877.1
30-40	6883.37
40-50	6811.14
50-60	5923.34
60-70	4458.28
70-80	2719.82
80-90	1235.72
90-100	519.24
100-110	310.75
110-120	201.92
120-130	116.52
130-140	52.43
140-150	14.64
150-160	1.79
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	105	100	96	93	95	92	89	91	88	86	87	85	83	80
2	98	90	83	77	95	88	81	76	83	78	74	80	75	71	76	73	69	67
3	89	79	71	64	87	77	70	63	74	67	62	70	65	60	68	63	59	57
4	82	70	61	55	79	68	60	54	66	59	53	63	57	52	60	55	51	49
5	75	63	54	47	73	61	53	47	59	52	46	57	50	45	54	49	44	42
6	70	56	48	41	68	55	47	41	53	46	40	51	45	40	49	44	39	37
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	39	35	33
8	60	47	38	33	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	35	29	55	42	35	29	41	34	29	40	33	29	38	33	28	26
10	53	40	32	27	51	39	32	27	38	31	26	37	30	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

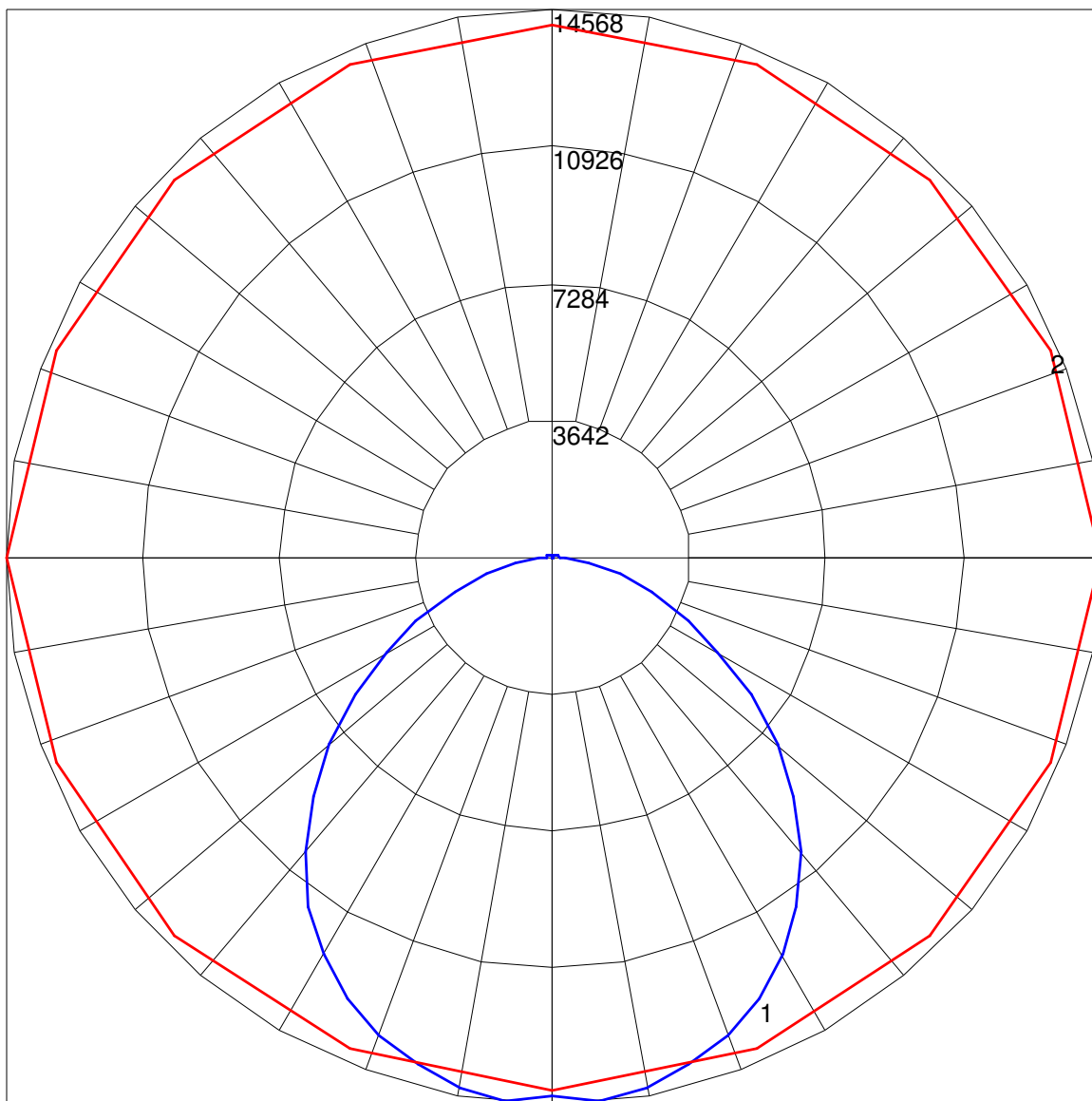
X=2H	Y=2H	21.6	23.2	22.0	23.6	23.9	22.9	24.5	23.3	24.9	25.3
	3H	22.9	24.3	23.4	24.7	25.2	24.8	26.3	25.3	26.6	27.1
	4H	23.3	24.7	23.8	25.1	25.5	25.7	27.0	26.1	27.4	27.8
	6H	23.6	24.8	24.0	25.2	25.7	26.4	27.6	26.8	28.0	28.5
	8H	23.6	24.8	24.1	25.3	25.7	26.7	27.9	27.2	28.3	28.8
	12H	23.6	24.8	24.1	25.2	25.7	27.0	28.1	27.5	28.6	29.1

UGR Viewed Endwise

4H	2H	22.3	23.6	22.7	24.0	24.5	23.3	24.7	23.8	25.1	25.5
	3H	23.8	24.9	24.3	25.4	25.9	25.5	26.6	26.0	27.1	27.5
	4H	24.3	25.3	24.8	25.8	26.3	26.5	27.5	26.9	27.9	28.4
	6H	24.7	25.5	25.2	26.0	26.6	27.3	28.2	27.8	28.7	29.3
	8H	24.7	25.6	25.2	26.1	26.6	27.7	28.6	28.2	29.1	29.6
	12H	24.8	25.5	25.3	26.0	26.6	28.1	28.9	28.7	29.4	29.9
8H	4H	24.8	25.6	25.3	26.1	26.6	26.6	27.5	27.1	28.0	28.5
	6H	25.2	25.9	25.7	26.4	27.0	27.7	28.4	28.2	28.9	29.4
	8H	25.3	25.9	25.9	26.5	27.1	28.2	28.8	28.7	29.4	29.9
	12H	25.4	26.0	25.9	26.5	27.1	28.7	29.2	29.2	29.8	30.4
12H	4H	24.8	25.6	25.4	26.1	26.7	26.6	27.4	27.2	27.9	28.5
	6H	25.3	26.0	25.9	26.5	27.1	27.7	28.3	28.3	28.8	29.4
	8H	25.5	26.1	26.1	26.6	27.2	28.2	28.8	28.8	29.3	30.0

Maximum UGR = 30.4

POLAR GRAPH



Maximum Candela = 14567.969 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.)