



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 96-4-L81-835-PCFR-(L80)-EM10W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20009.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 07-14-2023
 [MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 4' VAPORTITE LUMINAIRE
 [MORE] WHITE FLAT REFLECTOR w/PCFR LENS
 [LUMCAT] 96-4-L81-835-PCFR-(L80) EM10W-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1180
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.25 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1611	1344	1353
55	1374	1179	1251
65	1093	1015	1138
75	753	851	1008
85	241	711	886

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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	412.478	412.478	412.478	412.478	412.478
5	418.904	410.269	407.056	405.650	405.048
10	411.273	403.240	399.023	395.208	394.806
15	400.429	391.593	387.175	384.364	382.757
20	383.159	372.716	370.909	363.479	363.278
25	360.065	350.827	347.413	344.200	343.397
30	332.954	326.327	322.311	320.303	320.303
35	302.430	298.414	293.795	296.607	297.811
40	268.492	267.086	265.480	273.312	275.119
45	233.952	234.956	237.366	249.415	252.226
50	199.210	203.026	211.259	225.919	230.739
55	164.469	172.502	183.948	202.423	209.452
60	131.133	141.174	158.043	178.928	186.157
65	99.003	111.453	132.740	156.436	163.063
70	70.487	85.548	108.843	133.543	138.965
75	44.180	61.852	86.351	110.248	115.871
80	21.487	41.770	66.671	88.159	92.777
85	6.025	25.504	49.200	68.880	73.499
90	1.807	15.463	36.950	53.216	59.442
95	1.607	10.242	28.315	43.577	49.401
100	1.406	6.025	22.090	35.545	40.766
105	0.602	2.410	15.865	27.914	32.934
110	0.602	0.602	11.246	21.487	26.307
115	0.402	0.201	7.029	15.865	20.082
120	0.000	0.000	2.811	10.844	14.660
125	0.000	0.000	0.602	6.225	9.840
130	0.000	0.000	0.000	2.611	5.422
135	0.000	0.000	0.000	0.402	1.807
140	0.000	0.000	0.000	0.201	0.201
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
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 : 96-4-L81-835-PCFR-(L80)-EM10W-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	148.08	N.A.	12.50
0-30	308.54	N.A.	26.10
0-40	494.55	N.A.	41.90
0-60	847.96	N.A.	71.90
0-80	1070.03	N.A.	90.70
0-90	1121.59	N.A.	95.00
10-90	1082.84	N.A.	91.80
20-40	346.47	N.A.	29.40
20-50	532.96	N.A.	45.20
40-70	485.47	N.A.	41.10
60-80	222.06	N.A.	18.80
70-80	90.01	N.A.	7.60
80-90	51.57	N.A.	4.40
90-110	46.82	N.A.	4.00
90-120	55.19	N.A.	4.70
90-130	58.01	N.A.	4.90
90-150	58.43	N.A.	5.00
90-180	58.43	N.A.	5.00
110-180	11.61	N.A.	1.00
0-180	1180.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.75
10-20	109.32
20-30	160.47
30-40	186.01
40-50	186.49
50-60	166.93
60-70	132.06
70-80	90.01
80-90	51.57
90-100	29.76
100-110	17.05
110-120	8.37
120-130	2.82
130-140	0.41
140-150	0.01
150-160	0.00
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	108	108	108	103	103	103	97	97	97	95
1	107	101	97	92	103	99	94	90	93	90	87	89	86	83	84	82	80	77
2	97	88	81	75	94	86	79	74	81	76	71	77	73	69	74	70	66	64
3	88	77	69	62	85	75	68	61	72	65	60	68	63	58	65	60	56	54
4	81	68	60	53	78	67	59	52	64	56	51	61	55	50	58	53	48	46
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	46	39	52	44	39	50	43	38	47	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	43	38	33	31
8	59	46	37	31	57	45	37	31	43	36	31	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	31	26	37	30	25	36	29	25	34	29	24	23

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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	11.1	12.6	11.5	13.0	13.5	13.3	14.9	13.8	15.3	15.7
	3H	12.3	13.7	12.8	14.1	14.6	15.6	17.0	16.1	17.5	18.0
	4H	12.7	14.0	13.1	14.4	14.9	16.7	18.1	17.2	18.5	19.0
	6H	12.8	14.1	13.3	14.5	15.0	17.8	19.0	18.3	19.5	20.0
	8H	12.9	14.0	13.4	14.5	15.0	18.3	19.5	18.8	20.0	20.5
	12H	12.9	14.0	13.4	14.5	15.0	18.8	20.0	19.3	20.4	21.0

UGR Viewed Endwise

4H	2H	11.9	13.2	12.4	13.7	14.2	13.7	15.0	14.2	15.4	15.9
	3H	13.4	14.5	13.9	15.0	15.5	16.3	17.4	16.7	17.9	18.4
	4H	13.9	14.9	14.4	15.4	15.9	17.5	18.5	18.0	19.0	19.6
	6H	14.2	15.1	14.7	15.6	16.2	18.7	19.6	19.3	20.2	20.7
	8H	14.2	15.1	14.7	15.6	16.2	19.4	20.2	19.9	20.7	21.3
	12H	14.2	15.0	14.8	15.6	16.1	20.0	20.8	20.6	21.3	21.9

8H	4H	14.5	15.4	15.0	15.9	16.5	17.7	18.5	18.2	19.1	19.6
	6H	15.0	15.7	15.5	16.3	16.9	19.1	19.8	19.6	20.4	21.0
	8H	15.1	15.8	15.7	16.3	16.9	19.8	20.5	20.4	21.1	21.7
	12H	15.2	15.8	15.8	16.3	17.0	20.7	21.2	21.2	21.8	22.5

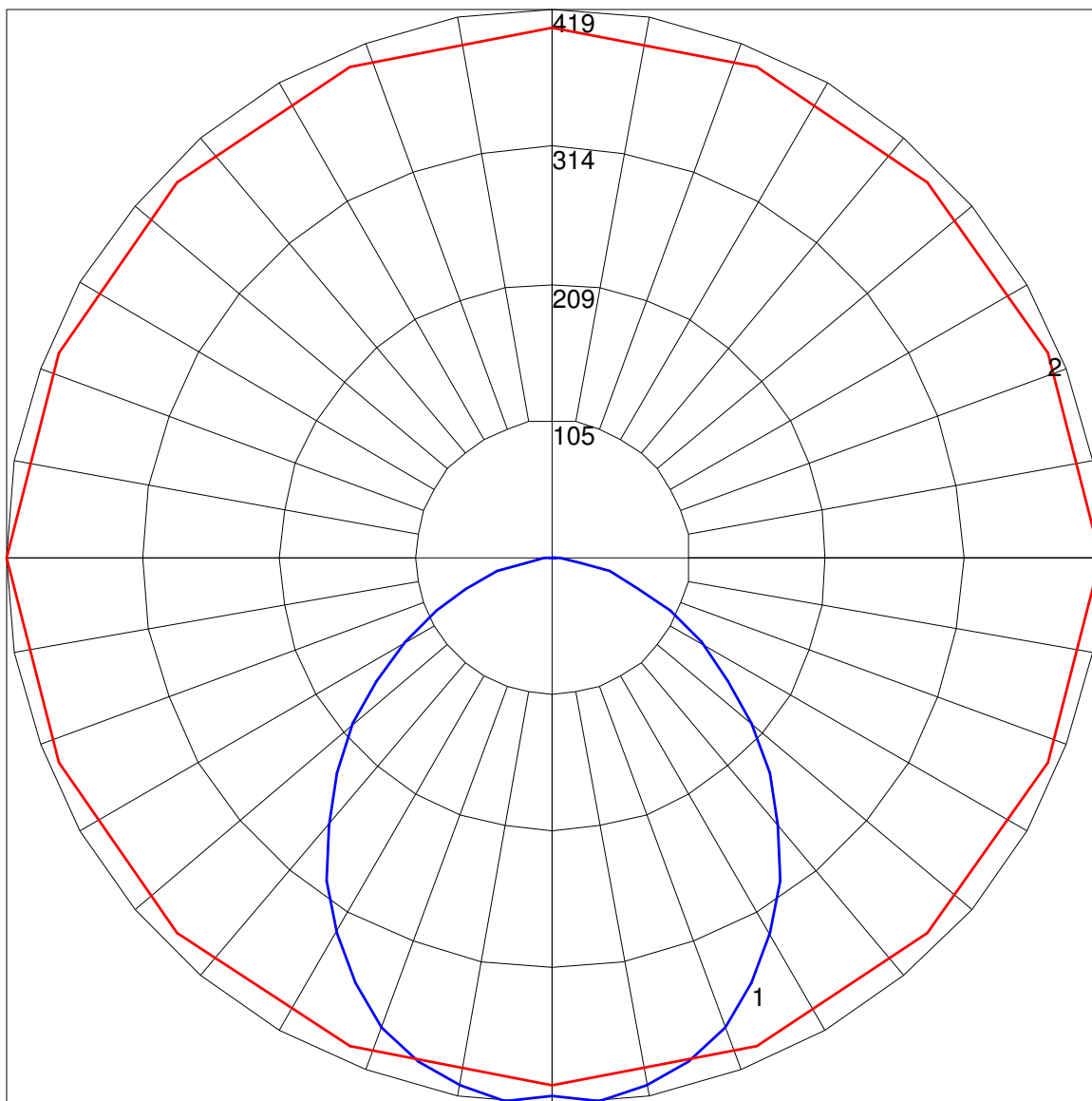
12H	4H	14.7	15.5	15.2	16.0	16.6	17.7	18.4	18.2	19.0	19.6
	6H	15.2	15.9	15.8	16.4	17.1	19.1	19.8	19.7	20.3	20.9
	8H	15.5	16.0	16.0	16.6	17.3	19.9	20.5	20.5	21.1	21.7

Maximum UGR = 22.5

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POLAR GRAPH



Maximum Candela = 418.904 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.)