



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 96-4-L81-835-PCFR-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] 01-27-2023
 [MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 4' VAPORTITE LUMINAIRE
 [MORE] WHITE FLAT REFLECTOR w/PCFR LENS
 [LUMCAT] 96-4-L81-835-PCFR-EM10W-DRV-UNV(EMERGENCY MODE)
 [LAMPCAT] HLM 80 CRI 43500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1103
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	1506	1256	1265
55	1284	1102	1169
65	1022	949	1063
75	704	795	943
85	226	665	828

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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	385.503	385.503	385.503	385.503	385.503
5	391.509	383.439	380.436	379.122	378.559
10	384.377	376.870	372.928	369.362	368.987
15	374.242	365.984	361.855	359.227	357.726
20	358.101	348.342	346.653	339.708	339.521
25	336.518	327.884	324.693	321.691	320.940
30	311.180	304.987	301.233	299.356	299.356
35	282.652	278.899	274.582	277.209	278.336
40	250.934	249.620	248.118	255.438	257.127
45	218.652	219.590	221.843	233.104	235.731
50	186.183	189.749	197.444	211.145	215.649
55	153.713	161.221	171.919	189.186	195.755
60	122.558	131.942	147.707	167.227	173.983
65	92.528	104.165	124.059	146.206	152.399
70	65.877	79.953	101.725	124.810	129.877
75	41.291	57.807	80.704	103.039	108.294
80	20.082	39.038	62.311	82.393	86.710
85	5.631	23.836	45.983	64.376	68.692
90	1.689	14.452	34.534	49.736	55.554
95	1.501	9.572	26.463	40.727	46.170
100	1.314	5.631	20.645	33.220	38.100
105	0.563	2.252	14.827	26.088	30.780
110	0.563	0.563	10.510	20.082	24.587
115	0.375	0.188	6.569	14.827	18.768
120	0.000	0.000	2.628	10.135	13.701
125	0.000	0.000	0.563	5.818	9.197
130	0.000	0.000	0.000	2.440	5.067
135	0.000	0.000	0.000	0.375	1.689
140	0.000	0.000	0.000	0.188	0.188
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-EM10W-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	138.39	N.A.	12.50
0-30	288.37	N.A.	26.10
0-40	462.21	N.A.	41.90
0-60	792.51	N.A.	71.90
0-80	1000.05	N.A.	90.70
0-90	1048.25	N.A.	95.00
10-90	1012.03	N.A.	91.80
20-40	323.82	N.A.	29.40
20-50	498.11	N.A.	45.20
40-70	453.72	N.A.	41.10
60-80	207.54	N.A.	18.80
70-80	84.12	N.A.	7.60
80-90	48.20	N.A.	4.40
90-110	43.75	N.A.	4.00
90-120	51.58	N.A.	4.70
90-130	54.21	N.A.	4.90
90-150	54.61	N.A.	5.00
90-180	54.61	N.A.	5.00
110-180	10.86	N.A.	1.00
0-180	1102.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.22
10-20	102.17
20-30	149.97
30-40	173.84
40-50	174.29
50-60	156.01
60-70	123.42
70-80	84.12
80-90	48.20
90-100	27.82
100-110	15.94
110-120	7.83
120-130	2.64
130-140	0.38
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	58	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	49	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	10.8	12.3	11.2	12.7	13.2	13.0	14.6	13.5	15.0	15.4
	3H	12.0	13.4	12.5	13.8	14.3	15.4	16.8	15.8	17.2	17.7
	4H	12.4	13.7	12.8	14.1	14.6	16.4	17.8	16.9	18.2	18.7
	6H	12.5	13.8	13.0	14.2	14.7	17.5	18.7	18.0	19.2	19.7
	8H	12.6	13.7	13.1	14.2	14.7	18.0	19.2	18.5	19.7	20.2
	12H	12.6	13.7	13.1	14.2	14.7	18.5	19.7	19.0	20.2	20.7

UGR Viewed Endwise

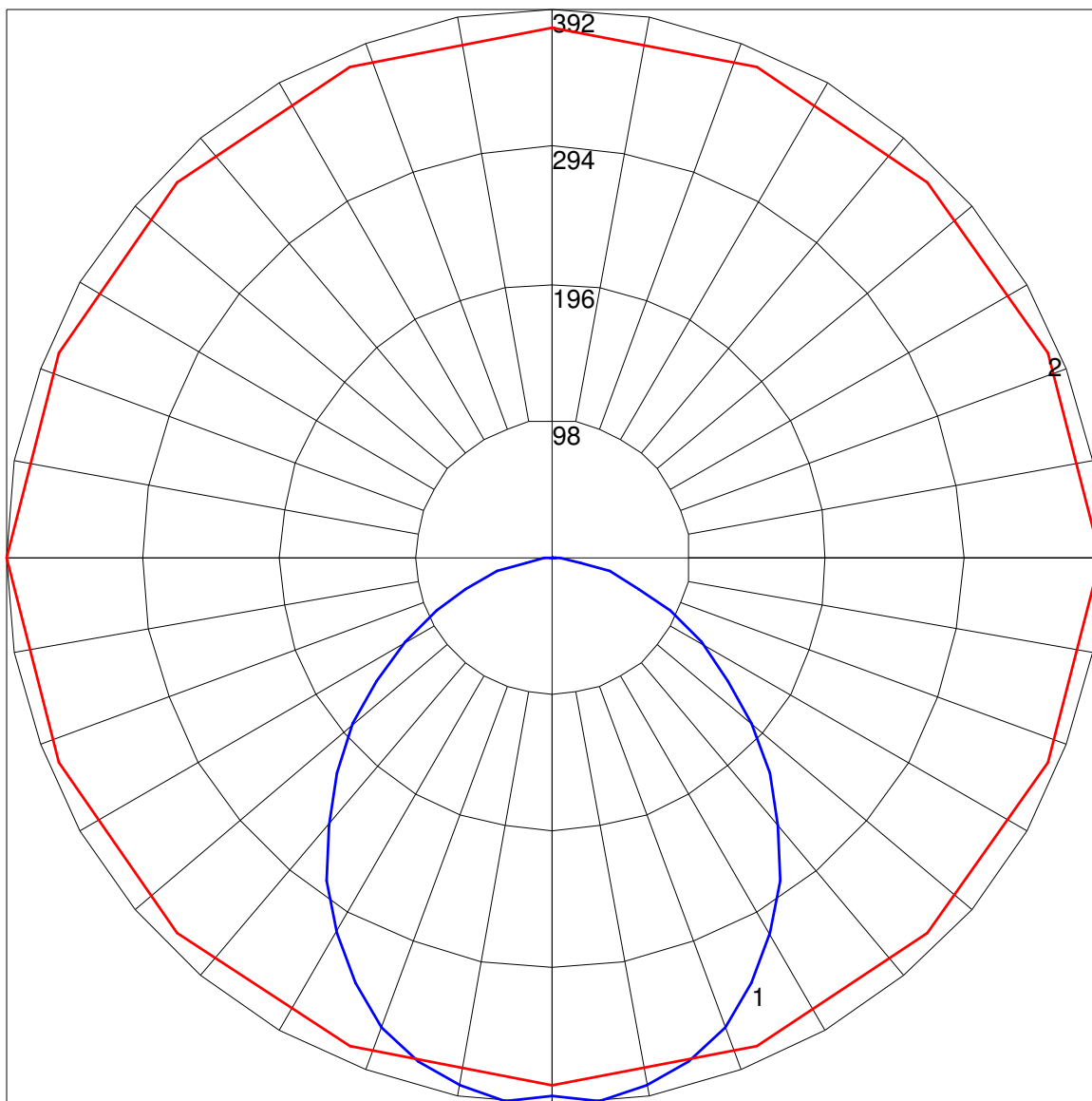
4H	2H	11.6	12.9	12.1	13.4	13.9	13.4	14.7	13.9	15.2	15.6
	3H	13.1	14.2	13.6	14.7	15.2	16.0	17.1	16.5	17.6	18.1
	4H	13.6	14.6	14.1	15.1	15.6	17.2	18.2	17.7	18.7	19.3
	6H	13.9	14.8	14.4	15.3	15.9	18.4	19.4	19.0	19.9	20.5
	8H	13.9	14.8	14.4	15.3	15.9	19.1	19.9	19.6	20.4	21.0
	12H	13.9	14.7	14.5	15.3	15.8	19.7	20.5	20.3	21.1	21.6

8H	4H	14.2	15.1	14.8	15.6	16.2	17.4	18.2	17.9	18.8	19.3
	6H	14.7	15.4	15.3	16.0	16.6	18.8	19.5	19.4	20.1	20.7
	8H	14.8	15.5	15.4	16.0	16.6	19.5	20.2	20.1	20.8	21.4
	12H	14.9	15.5	15.5	16.0	16.7	20.4	20.9	20.9	21.5	22.2

12H	4H	14.4	15.2	14.9	15.7	16.3	17.4	18.1	17.9	18.7	19.3
	6H	15.0	15.6	15.5	16.2	16.8	18.8	19.5	19.4	20.0	20.7
	8H	15.2	15.7	15.8	16.3	17.0	19.6	20.2	20.2	20.8	21.4

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 391.509 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.)