



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 96-4-L62-840-DFR-(L60)-EM10W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20008.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 02-11-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 4' VAPORTITE LED LUMINAIRE
 [MORE] WHITE FLAT REFLECTOR w/DROP FROSTED LENS
 [LUMCAT] 96-4-L62-840-DFR-(L60)-EM10W-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1520
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.32
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	2229	1845	1760
55	1861	1524	1499
65	1425	1255	1365
75	931	1045	1232
85	360	857	1028

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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	547.616	547.616	547.616	547.616	547.616
5	555.648	544.781	542.891	540.765	539.347
10	547.379	536.748	530.842	525.881	522.574
15	533.677	520.920	512.415	505.328	500.839
20	513.360	498.477	489.027	475.088	469.182
25	488.082	470.364	459.024	442.487	440.597
30	456.661	437.762	426.422	418.390	420.988
35	420.516	401.144	393.584	396.419	402.561
40	376.102	357.202	361.927	362.872	368.778
45	323.656	311.135	325.782	324.600	328.144
50	271.918	266.720	281.368	285.384	286.093
55	222.779	225.378	237.899	248.766	250.892
60	176.002	185.216	198.682	219.235	222.306
65	128.990	141.747	164.190	189.468	195.611
70	88.828	102.530	134.423	160.647	169.624
75	54.573	69.928	106.074	133.951	141.511
80	26.932	45.123	81.032	107.964	111.744
85	8.977	28.113	59.297	83.631	85.284
90	3.544	18.191	43.705	62.369	64.259
95	3.307	12.521	35.437	48.903	51.265
100	2.835	7.796	26.932	38.035	40.634
105	1.890	4.489	19.845	29.531	32.602
110	1.181	1.654	14.175	22.916	25.514
115	0.945	0.472	9.214	17.010	20.081
120	0.472	0.236	5.670	12.285	14.411
125	0.000	0.000	1.890	7.560	9.922
130	0.000	0.000	0.000	3.544	5.670
135	0.000	0.000	0.000	1.181	2.126
140	0.000	0.000	0.000	0.945	0.945
145	0.000	0.000	0.000	0.472	0.472
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-L62-840-DFR-(L60)-EM10W-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	196.21	N.A.	12.90
0-30	408.15	N.A.	26.90
0-40	658.03	N.A.	43.30
0-60	1119.43	N.A.	73.60
0-80	1391.83	N.A.	91.60
0-90	1453.02	N.A.	95.60
10-90	1401.48	N.A.	92.20
20-40	461.82	N.A.	30.40
20-50	709.97	N.A.	46.70
40-70	625.11	N.A.	41.10
60-80	272.39	N.A.	17.90
70-80	108.68	N.A.	7.20
80-90	61.20	N.A.	4.00
90-110	53.31	N.A.	3.50
90-120	62.78	N.A.	4.10
90-130	66.22	N.A.	4.40
90-150	66.94	N.A.	4.40
90-180	66.94	N.A.	4.40
110-180	13.64	N.A.	0.90
0-180	1519.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.55
10-20	144.67
20-30	211.93
30-40	249.89
40-50	248.15
50-60	213.25
60-70	163.71
70-80	108.68
80-90	61.20
90-100	34.18
100-110	19.13
110-120	9.47
120-130	3.44
130-140	0.61
140-150	0.11
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	109	109	109	103	103	103	98	98	98	96
1	107	102	97	93	104	99	95	91	94	91	88	89	87	84	85	83	81	78
2	97	89	82	76	94	86	80	75	82	77	72	78	74	70	75	71	68	65
3	89	78	70	63	86	76	68	62	72	66	61	69	64	59	66	61	57	55
4	81	69	60	54	79	68	59	53	65	57	52	62	56	51	59	54	49	47
5	75	62	53	46	72	61	52	46	58	51	45	56	49	44	53	48	43	41
6	69	56	47	41	67	55	46	40	52	45	39	50	44	39	48	43	38	36
7	64	51	42	36	62	50	41	36	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	37	31	42	36	31	41	35	30	29
9	56	43	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	31	26	36	30	25	35	29	25	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	12.2	13.7	12.6	14.1	14.5	13.9	15.4	14.3	15.8	16.2
	3H	13.3	14.7	13.7	15.1	15.6	16.2	17.6	16.6	18.0	18.5
	4H	13.6	14.9	14.0	15.3	15.8	17.3	18.6	17.7	19.0	19.5
	6H	13.7	15.0	14.2	15.4	15.9	18.3	19.6	18.8	20.0	20.5
	8H	13.7	14.9	14.2	15.4	15.9	18.8	20.0	19.3	20.5	21.0
	12H	13.7	14.9	14.2	15.3	15.9	19.3	20.5	19.8	20.9	21.4

UGR Viewed Endwise

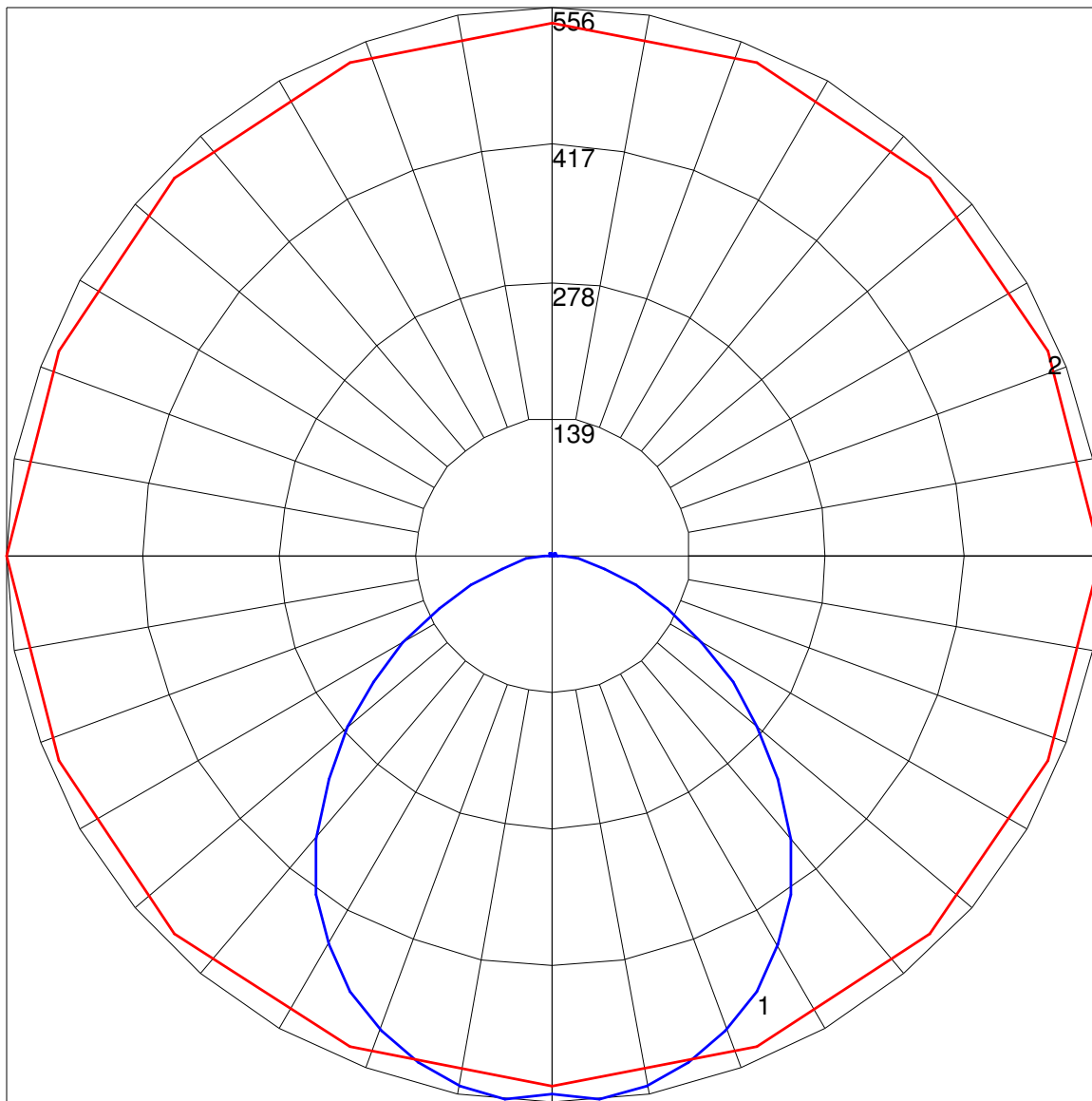
4H	2H	12.9	14.2	13.3	14.6	15.1	14.3	15.6	14.7	16.0	16.5
	3H	14.2	15.4	14.7	15.8	16.3	16.8	17.9	17.3	18.4	18.9
	4H	14.7	15.7	15.2	16.2	16.7	18.1	19.1	18.6	19.6	20.1
	6H	14.9	15.8	15.4	16.3	16.8	19.3	20.2	19.8	20.7	21.3
	8H	14.9	15.8	15.4	16.3	16.8	19.9	20.7	20.4	21.3	21.8
	12H	15.0	15.7	15.5	16.3	16.8	20.5	21.3	21.1	21.8	22.4
8H	4H	15.2	16.1	15.8	16.6	17.2	18.2	19.1	18.7	19.6	20.1
	6H	15.6	16.3	16.2	16.9	17.5	19.6	20.3	20.2	20.9	21.5
	8H	15.7	16.4	16.3	17.0	17.5	20.3	21.0	20.9	21.6	22.2
	12H	15.8	16.4	16.4	16.9	17.6	21.2	21.7	21.7	22.3	22.9
12H	4H	15.4	16.2	16.0	16.7	17.3	18.2	19.0	18.8	19.5	20.1
	6H	15.9	16.5	16.5	17.1	17.7	19.6	20.3	20.2	20.8	21.5
	8H	16.1	16.7	16.6	17.2	17.9	20.4	21.0	21.0	21.6	22.2

Maximum UGR = 22.9

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POLAR GRAPH



Maximum Candela = 555.648 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.)