



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 96-4-L62-840-DFR-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  
 [ISSUE DATE] 06-25-2021  
 [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-EM10W-DIM-UN\_(EM MODE)  
 [LAMPCAT] HLM 80 CRI 4000K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1400
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
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	2053	1699	1621
55	1714	1404	1380
65	1312	1156	1257
75	857	962	1134
85	331	789	947

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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	504.383	504.383	504.383	504.383	504.383
5	511.781	501.772	500.031	498.073	496.767
10	504.165	494.374	488.934	484.364	481.318
15	491.545	479.795	471.961	465.434	461.299
20	472.832	459.123	450.420	437.582	432.142
25	449.549	433.230	422.785	407.554	405.813
30	420.609	403.202	392.757	385.359	387.753
35	387.317	369.475	362.512	365.123	370.780
40	346.410	329.002	333.354	334.224	339.664
45	298.104	286.571	300.062	298.974	302.238
50	250.451	245.664	259.154	262.854	263.506
55	205.191	207.585	219.117	229.126	231.085
60	162.108	170.594	182.997	201.927	204.756
65	118.806	130.556	151.228	174.510	180.168
70	81.815	94.436	123.811	147.964	156.232
75	50.264	64.408	97.700	123.376	130.339
80	24.806	41.560	74.635	99.440	102.922
85	8.269	25.894	54.616	77.028	78.551
90	3.264	16.755	40.255	57.445	59.186
95	3.046	11.532	32.639	45.042	47.218
100	2.611	7.181	24.806	35.033	37.426
105	1.741	4.134	18.278	27.199	30.028
110	1.088	1.523	13.056	21.107	23.500
115	0.870	0.435	8.486	15.667	18.495
120	0.435	0.218	5.222	11.315	13.273
125	0.000	0.000	1.741	6.963	9.139
130	0.000	0.000	0.000	3.264	5.222
135	0.000	0.000	0.000	1.088	1.958
140	0.000	0.000	0.000	0.870	0.870
145	0.000	0.000	0.000	0.435	0.435
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-EM10W-DIM-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	180.72	N.A.	12.90
0-30	375.92	N.A.	26.90
0-40	606.08	N.A.	43.30
0-60	1031.06	N.A.	73.60
0-80	1281.95	N.A.	91.60
0-90	1338.31	N.A.	95.60
10-90	1290.83	N.A.	92.20
20-40	425.36	N.A.	30.40
20-50	653.92	N.A.	46.70
40-70	575.76	N.A.	41.10
60-80	250.89	N.A.	17.90
70-80	100.10	N.A.	7.20
80-90	56.36	N.A.	4.00
90-110	49.10	N.A.	3.50
90-120	57.82	N.A.	4.10
90-130	60.99	N.A.	4.40
90-150	61.66	N.A.	4.40
90-180	61.66	N.A.	4.40
110-180	12.56	N.A.	0.90
0-180	1399.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.48
10-20	133.25
20-30	195.20
30-40	230.16
40-50	228.56
50-60	196.41
60-70	150.79
70-80	100.10
80-90	56.36
90-100	31.48
100-110	17.62
110-120	8.72
120-130	3.17
130-140	0.56
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

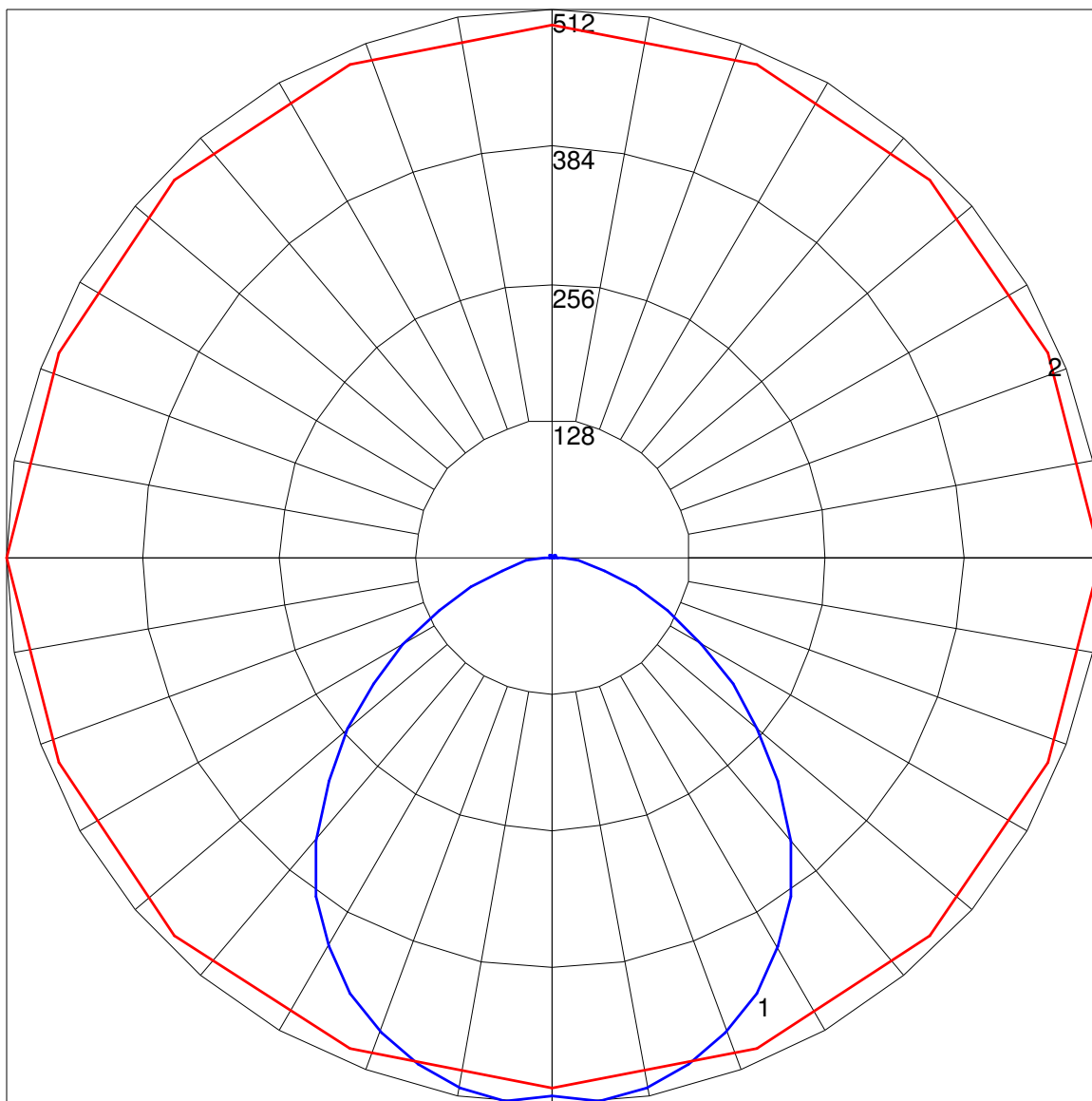
X=2H	Y=2H	11.9	13.4	12.3	13.8	14.2	13.6	15.1	14.0	15.5	16.0
	3H	13.0	14.4	13.4	14.8	15.3	15.9	17.3	16.3	17.7	18.2
	4H	13.3	14.6	13.7	15.0	15.5	17.0	18.3	17.4	18.7	19.2
	6H	13.4	14.7	13.9	15.1	15.6	18.0	19.3	18.5	19.7	20.2
	8H	13.5	14.6	13.9	15.1	15.6	18.5	19.7	19.0	20.2	20.7
	12H	13.4	14.6	13.9	15.0	15.6	19.0	20.2	19.5	20.6	21.2

### UGR Viewed Endwise

4H	2H	12.6	13.9	13.0	14.3	14.8	14.0	15.3	14.4	15.7	16.2
	3H	14.0	15.1	14.4	15.6	16.0	16.5	17.6	17.0	18.1	18.6
	4H	14.4	15.4	14.9	15.9	16.4	17.8	18.8	18.3	19.3	19.8
	6H	14.6	15.5	15.1	16.0	16.5	19.0	19.9	19.5	20.4	21.0
	8H	14.6	15.5	15.2	16.0	16.6	19.6	20.5	20.1	21.0	21.5
	12H	14.7	15.4	15.2	16.0	16.5	20.2	21.0	20.8	21.5	22.1
8H	4H	15.0	15.8	15.5	16.3	16.9	17.9	18.8	18.5	19.3	19.9
	6H	15.3	16.1	15.9	16.6	17.2	19.3	20.0	19.9	20.6	21.2
	8H	15.4	16.1	16.0	16.7	17.2	20.1	20.7	20.6	21.3	21.9
	12H	15.5	16.1	16.1	16.6	17.3	20.9	21.4	21.4	22.0	22.6
12H	4H	15.1	15.9	15.7	16.4	17.0	17.9	18.7	18.5	19.2	19.8
	6H	15.6	16.3	16.2	16.8	17.4	19.4	20.0	19.9	20.5	21.2
	8H	15.8	16.4	16.3	16.9	17.6	20.1	20.7	20.7	21.3	21.9

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 511.781 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.)