



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 96-4-L40-840-PCFR-(L33)-EM6WC-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
[ISSUE DATE] 01-23-2024
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2-56 LED 22"ARRAYS 4'VAPORTITE LUMINAIRE
[MORE] WHITE FLAT REFLECTOR w/PCFR LENS
[MORE] EVERLINE LED DRIVER #D15CC55UNVTW-C @ 1029mA
[LUMCAT] 96-4-L40/840-PCFR-(L33)-EM6W-DIM-UNV
[LAMPCAT] 10560223

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	761
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	6
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	1039	867	873
55	886	760	807
65	705	655	734
75	486	549	650
85	156	459	571

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	266.045	266.045	266.045	266.045	266.045
5	270.190	264.620	262.548	261.641	261.253
10	265.268	260.087	257.367	254.906	254.647
15	258.273	252.574	249.725	247.911	246.875
20	247.134	240.399	239.233	234.441	234.311
25	232.239	226.281	224.079	222.006	221.488
30	214.753	210.479	207.888	206.593	206.593
35	195.065	192.475	189.496	191.309	192.086
40	173.175	172.269	171.232	176.284	177.450
45	150.897	151.545	153.099	160.870	162.684
50	128.489	130.950	136.261	145.716	148.825
55	106.081	111.262	118.645	130.562	135.095
60	84.580	91.056	101.936	115.407	120.070
65	63.856	71.887	85.616	100.900	105.175
70	45.463	55.178	70.203	86.134	89.632
75	28.496	39.894	55.696	71.109	74.736
80	13.859	26.941	43.002	56.862	59.841
85	3.886	16.450	31.734	44.427	47.406
90	1.166	9.973	23.833	34.324	38.339
95	1.036	6.606	18.263	28.107	31.863
100	0.907	3.886	14.248	22.926	26.294
105	0.389	1.554	10.232	18.004	21.242
110	0.389	0.389	7.253	13.859	16.968
115	0.259	0.130	4.533	10.232	12.953
120	0.000	0.000	1.813	6.994	9.455
125	0.000	0.000	0.389	4.015	6.347
130	0.000	0.000	0.000	1.684	3.497
135	0.000	0.000	0.000	0.259	1.166
140	0.000	0.000	0.000	0.130	0.130
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

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Zone	Lumens	%Lamp	%Fixt
0-20	95.51	N.A.	12.50
0-30	199.01	N.A.	26.10
0-40	318.98	N.A.	41.90
0-60	546.93	N.A.	71.90
0-80	690.16	N.A.	90.70
0-90	723.42	N.A.	95.00
10-90	698.42	N.A.	91.80
20-40	223.47	N.A.	29.40
20-50	343.76	N.A.	45.20
40-70	313.12	N.A.	41.10
60-80	143.23	N.A.	18.80
70-80	58.05	N.A.	7.60
80-90	33.26	N.A.	4.40
90-110	30.20	N.A.	4.00
90-120	35.60	N.A.	4.70
90-130	37.41	N.A.	4.90
90-150	37.69	N.A.	5.00
90-180	37.69	N.A.	5.00
110-180	7.49	N.A.	1.00
0-180	761.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.00
10-20	70.51
20-30	103.50
30-40	119.97
40-50	120.28
50-60	107.67
60-70	85.18
70-80	58.05
80-90	33.26
90-100	19.20
100-110	11.00
110-120	5.40
120-130	1.82
130-140	0.26
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	98	98	98	95
1	107	101	97	92	103	99	94	91	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	67	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	51	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	9.6	11.1	10.0	11.5	12.0	11.8	13.4	12.3	13.8	14.2
	3H	10.8	12.2	11.3	12.6	13.1	14.1	15.6	14.6	16.0	16.5
	4H	11.2	12.5	11.6	12.9	13.4	15.2	16.6	15.7	17.0	17.5
	6H	11.3	12.6	11.8	13.0	13.5	16.3	17.5	16.8	18.0	18.5
	8H	11.4	12.5	11.9	13.0	13.5	16.8	18.0	17.3	18.5	19.0
	12H	11.4	12.5	11.9	13.0	13.5	17.3	18.5	17.8	18.9	19.5

UGR Viewed Endwise

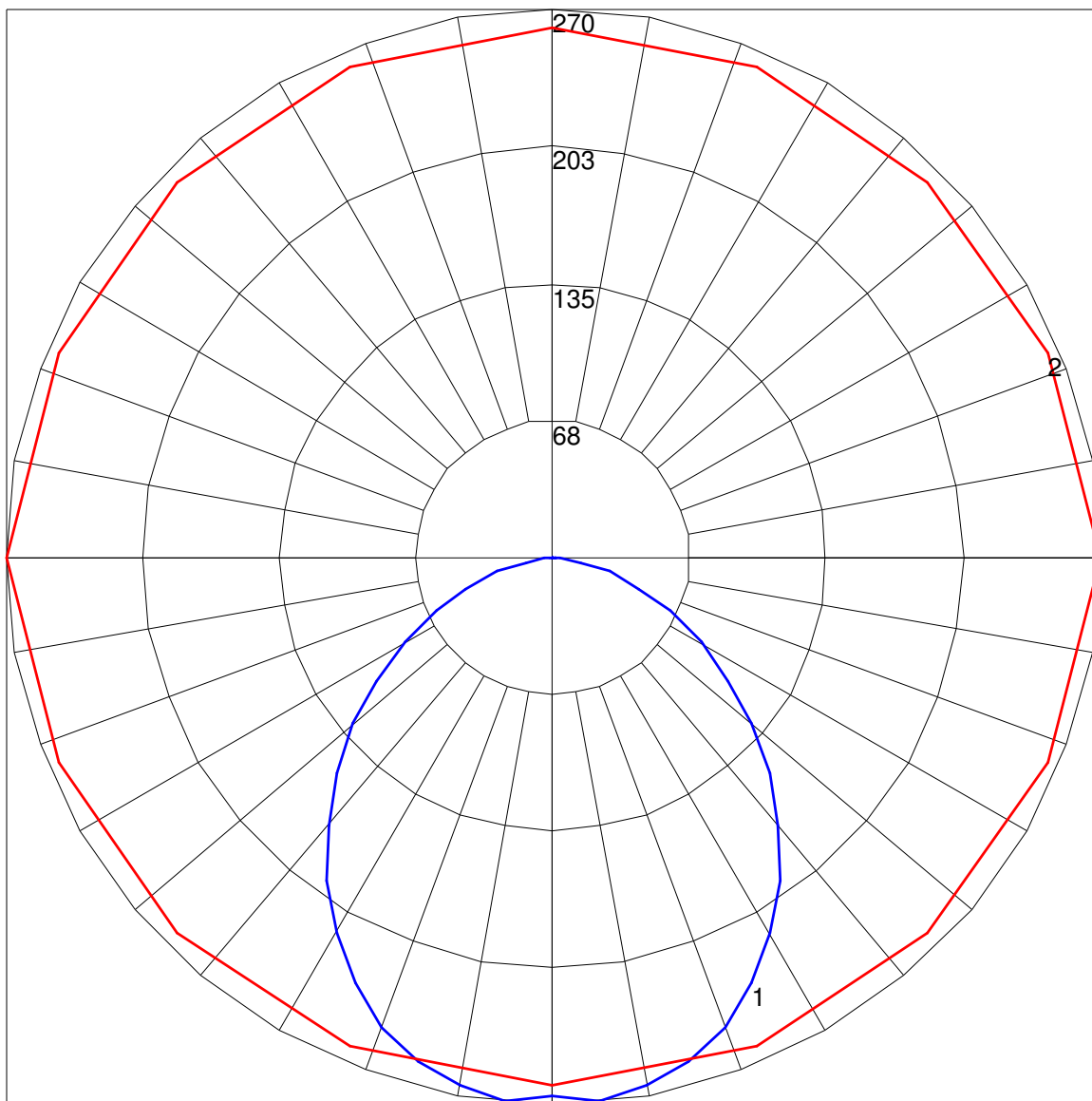
4H	2H	10.4	11.7	10.9	12.2	12.7	12.2	13.5	12.7	14.0	14.4
	3H	11.9	13.0	12.4	13.5	14.0	14.8	15.9	15.2	16.4	16.9
	4H	12.4	13.4	12.9	13.9	14.4	16.0	17.0	16.5	17.5	18.1
	6H	12.7	13.6	13.2	14.1	14.7	17.2	18.1	17.8	18.7	19.2
	8H	12.7	13.6	13.2	14.1	14.7	17.9	18.7	18.4	19.2	19.8
	12H	12.7	13.5	13.3	14.1	14.6	18.5	19.3	19.1	19.8	20.4
8H	4H	13.0	13.9	13.5	14.4	15.0	16.2	17.0	16.7	17.6	18.1
	6H	13.5	14.2	14.0	14.8	15.4	17.6	18.3	18.2	18.9	19.5
	8H	13.6	14.3	14.2	14.8	15.4	18.3	19.0	18.9	19.6	20.2
	12H	13.7	14.3	14.3	14.8	15.5	19.2	19.7	19.7	20.3	21.0
12H	4H	13.2	14.0	13.7	14.5	15.1	16.2	16.9	16.7	17.5	18.1
	6H	13.7	14.4	14.3	14.9	15.6	17.6	18.3	18.2	18.8	19.5
	8H	14.0	14.5	14.5	15.1	15.8	18.4	19.0	19.0	19.6	20.2

Maximum UGR = 21.0

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POLAR GRAPH



Maximum Candela = 270.19 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.)