



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 96-4-L62-840-PCFR-DIM-UNV_.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] 01-18-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] 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-L62-840-PCFR-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6091
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	41.1
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	8316	6938	6985
55	7092	6084	6458
65	5644	5239	5873
75	3889	4390	5206
85	1246	3671	4573

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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	2129.156	2129.156	2129.156	2129.156	2129.156
5	2162.327	2117.753	2101.168	2093.912	2090.802
10	2122.936	2081.473	2059.704	2040.009	2037.936
15	2066.960	2021.350	1998.545	1984.033	1975.741
20	1977.814	1923.911	1914.582	1876.228	1875.191
25	1858.606	1810.923	1793.301	1776.715	1772.569
30	1718.666	1684.459	1663.727	1653.361	1653.361
35	1561.105	1540.373	1516.531	1531.043	1537.263
40	1385.921	1378.665	1370.372	1410.799	1420.128
45	1207.627	1212.810	1225.249	1287.445	1301.957
50	1028.297	1047.992	1090.493	1166.164	1191.042
55	848.967	890.431	949.516	1044.883	1081.163
60	676.893	728.723	815.796	923.602	960.919
65	511.039	575.307	685.186	807.504	841.711
70	363.843	441.587	561.832	689.332	717.320
75	228.050	319.270	445.734	569.088	598.112
80	110.915	215.611	344.148	455.063	478.905
85	31.098	131.647	253.965	355.550	379.392
90	9.329	79.817	190.733	274.696	306.831
95	8.293	52.866	146.159	224.940	255.001
100	7.256	31.098	114.025	183.476	210.428
105	3.110	12.439	81.891	144.086	170.001
110	3.110	3.110	58.049	110.915	135.793
115	2.073	1.037	36.281	81.891	103.659
120	0.000	0.000	14.512	55.976	75.671
125	0.000	0.000	3.110	32.134	50.793
130	0.000	0.000	0.000	13.476	27.988
135	0.000	0.000	0.000	2.073	9.329
140	0.000	0.000	0.000	1.037	1.037
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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	764.35	N.A.	12.50
0-30	1592.67	N.A.	26.10
0-40	2552.81	N.A.	41.90
0-60	4377.08	N.A.	71.90
0-80	5523.33	N.A.	90.70
0-90	5789.52	N.A.	95.00
10-90	5589.48	N.A.	91.80
20-40	1788.46	N.A.	29.40
20-50	2751.08	N.A.	45.20
40-70	2505.92	N.A.	41.10
60-80	1146.25	N.A.	18.80
70-80	464.60	N.A.	7.60
80-90	266.19	N.A.	4.40
90-110	241.65	N.A.	4.00
90-120	284.88	N.A.	4.70
90-130	299.43	N.A.	4.90
90-150	301.61	N.A.	5.00
90-180	301.61	N.A.	5.00
110-180	59.95	N.A.	1.00
0-180	6091.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	200.04
10-20	564.32
20-30	828.31
30-40	960.15
40-50	962.62
50-60	861.65
60-70	681.66
70-80	464.60
80-90	266.19
90-100	153.64
100-110	88.02
110-120	43.22
120-130	14.55
130-140	2.11
140-150	0.06
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

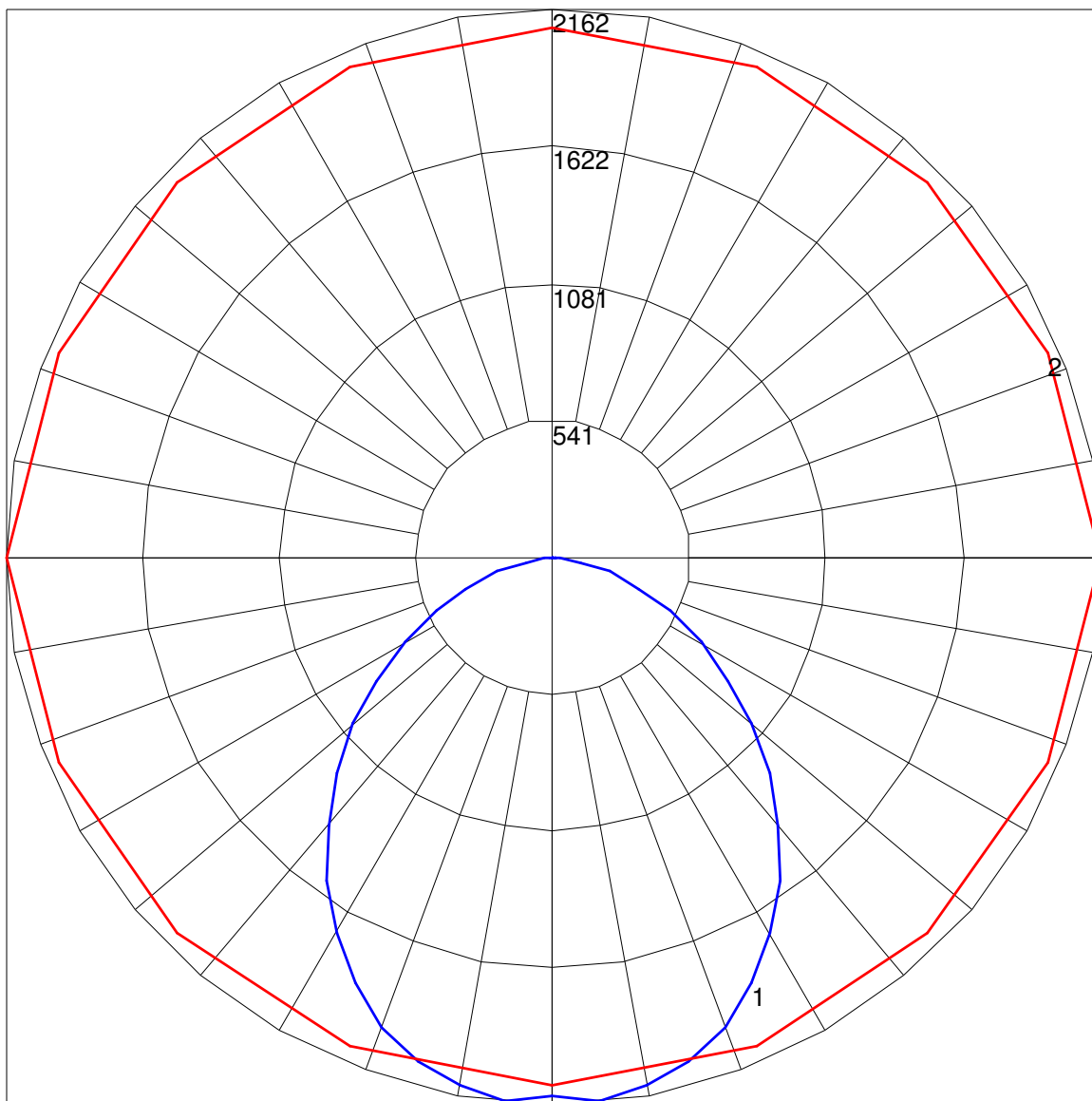
X=2H	Y=2H	16.8	18.3	17.2	18.7	19.2	19.0	20.6	19.5	21.0	21.4
	3H	18.0	19.4	18.5	19.8	20.3	21.4	22.8	21.8	23.2	23.7
	4H	18.4	19.7	18.8	20.1	20.6	22.4	23.8	22.9	24.2	24.7
	6H	18.5	19.8	19.0	20.2	20.7	23.5	24.7	24.0	25.2	25.7
	8H	18.6	19.7	19.1	20.2	20.7	24.0	25.2	24.5	25.7	26.2
	12H	18.6	19.7	19.1	20.2	20.7	24.5	25.7	25.0	26.1	26.7

UGR Viewed Endwise

4H	2H	17.6	18.9	18.1	19.4	19.9	19.4	20.7	19.9	21.2	21.6
	3H	19.1	20.2	19.6	20.7	21.2	22.0	23.1	22.5	23.6	24.1
	4H	19.6	20.6	20.1	21.1	21.6	23.2	24.2	23.7	24.7	25.3
	6H	19.9	20.8	20.4	21.3	21.9	24.4	25.4	25.0	25.9	26.4
	8H	19.9	20.8	20.4	21.3	21.9	25.1	25.9	25.6	26.4	27.0
	12H	19.9	20.7	20.5	21.3	21.8	25.7	26.5	26.3	27.1	27.6
8H	4H	20.2	21.1	20.7	21.6	22.2	23.4	24.2	23.9	24.8	25.3
	6H	20.7	21.4	21.2	22.0	22.6	24.8	25.5	25.4	26.1	26.7
	8H	20.8	21.5	21.4	22.0	22.6	25.5	26.2	26.1	26.8	27.4
	12H	20.9	21.5	21.5	22.0	22.7	26.4	26.9	26.9	27.5	28.2
12H	4H	20.4	21.2	20.9	21.7	22.3	23.4	24.1	23.9	24.7	25.3
	6H	20.9	21.6	21.5	22.1	22.8	24.8	25.5	25.4	26.0	26.7
	8H	21.2	21.7	21.7	22.3	23.0	25.6	26.2	26.2	26.8	27.4

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 2162.327 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.)