



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 96-8-L80-835-HIAFR-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20206.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 21-APR-2022

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 8' ENCLOSED & GASKETED LED LUMINAIRE

[MORE] WHITE FLAT REFL w/HIAFR RIBBED ACRYLIC DROP LENS

[LUMCAT] 96-8-L80-835-HIAFR-DRV-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Industrial, Manufacturing, Direct, Linear, Hose Down, Wet Location

[_SEARCH_MOUNTING] Surface, Suspended, Wall

[_SEARCH_CLASSIFICATION] IP65, IP66, IP67

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7777
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	61
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.29 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	6311	4747	4813
55	5197	4187	4233
65	4044	3679	3573
75	2714	2761	2747
85	1463	2146	2123

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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	2913.381	2913.381	2913.381	2913.381	2913.381
5	2891.105	2883.149	2868.829	2860.873	2864.056
10	2852.918	2830.642	2803.592	2779.725	2771.769
15	2806.775	2795.637	2749.493	2681.074	2717.671
20	2698.577	2646.069	2596.744	2488.546	2523.551
25	2569.694	2528.325	2442.403	2310.338	2366.028
30	2345.343	2240.328	2144.859	2058.938	2159.180
35	2122.584	1998.474	1930.055	1917.326	2009.612
40	1917.326	1786.853	1756.621	1796.399	1856.863
45	1755.030	1650.014	1618.191	1697.749	1750.256
50	1473.398	1436.801	1436.801	1557.728	1592.733
55	1182.219	1172.672	1257.002	1368.382	1382.702
60	910.133	951.503	1072.430	1159.943	1161.534
65	687.373	773.295	921.271	991.282	999.237
70	469.387	598.269	728.743	789.206	801.936
75	291.179	404.150	533.033	593.496	615.772
80	152.750	272.085	396.194	445.520	469.387
85	60.463	173.434	278.450	323.002	343.687
90	19.094	92.286	170.252	214.804	225.942
95	3.182	60.463	130.474	173.434	186.164
100	0.000	41.370	108.198	144.794	157.523
105	0.000	25.458	85.922	120.927	133.656
110	0.000	19.094	71.601	101.833	109.789
115	0.000	12.729	49.325	77.966	89.104
120	0.000	0.000	36.596	63.646	71.601
125	0.000	0.000	20.685	44.552	49.325
130	0.000	0.000	0.000	33.414	36.596
135	0.000	0.000	0.000	0.000	25.458
140	0.000	0.000	0.000	0.000	0.000
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	1041.26	N.A.	13.40
0-30	2151.63	N.A.	27.70
0-40	3394.51	N.A.	43.60
0-60	5818.55	N.A.	74.80
0-80	7224.61	N.A.	92.90
0-90	7495.71	N.A.	96.40
10-90	7223.38	N.A.	92.90
20-40	2353.25	N.A.	30.30
20-50	3639.48	N.A.	46.80
40-70	3292.58	N.A.	42.30
60-80	1406.06	N.A.	18.10
70-80	537.52	N.A.	6.90
80-90	271.10	N.A.	3.50
90-110	209.70	N.A.	2.70
90-120	256.53	N.A.	3.30
90-130	277.28	N.A.	3.60
90-150	281.13	N.A.	3.60
90-180	281.13	N.A.	3.60
110-180	71.43	N.A.	0.90
0-180	7776.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	272.33
10-20	768.93
20-30	1110.37
30-40	1242.88
40-50	1286.23
50-60	1137.81
60-70	868.54
70-80	537.52
80-90	271.10
90-100	129.01
100-110	80.68
110-120	46.83
120-130	20.75
130-140	3.84
140-150	0.00
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	104	104	104	99	99	99	96
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	80
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71	75	72	69	66
3	89	78	70	64	86	77	69	63	73	67	61	70	64	60	67	62	58	56
4	82	70	61	54	79	68	60	54	65	58	52	62	56	51	60	55	50	48
5	75	62	53	47	73	61	53	46	58	51	45	56	50	45	54	48	44	42
6	70	56	47	41	67	55	47	41	53	45	40	51	44	39	49	43	39	37
7	65	51	42	36	63	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31	29
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	40	32	27	51	39	31	26	38	31	26	37	30	26	35	30	26	24

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UGR TABLE - CORRECTED

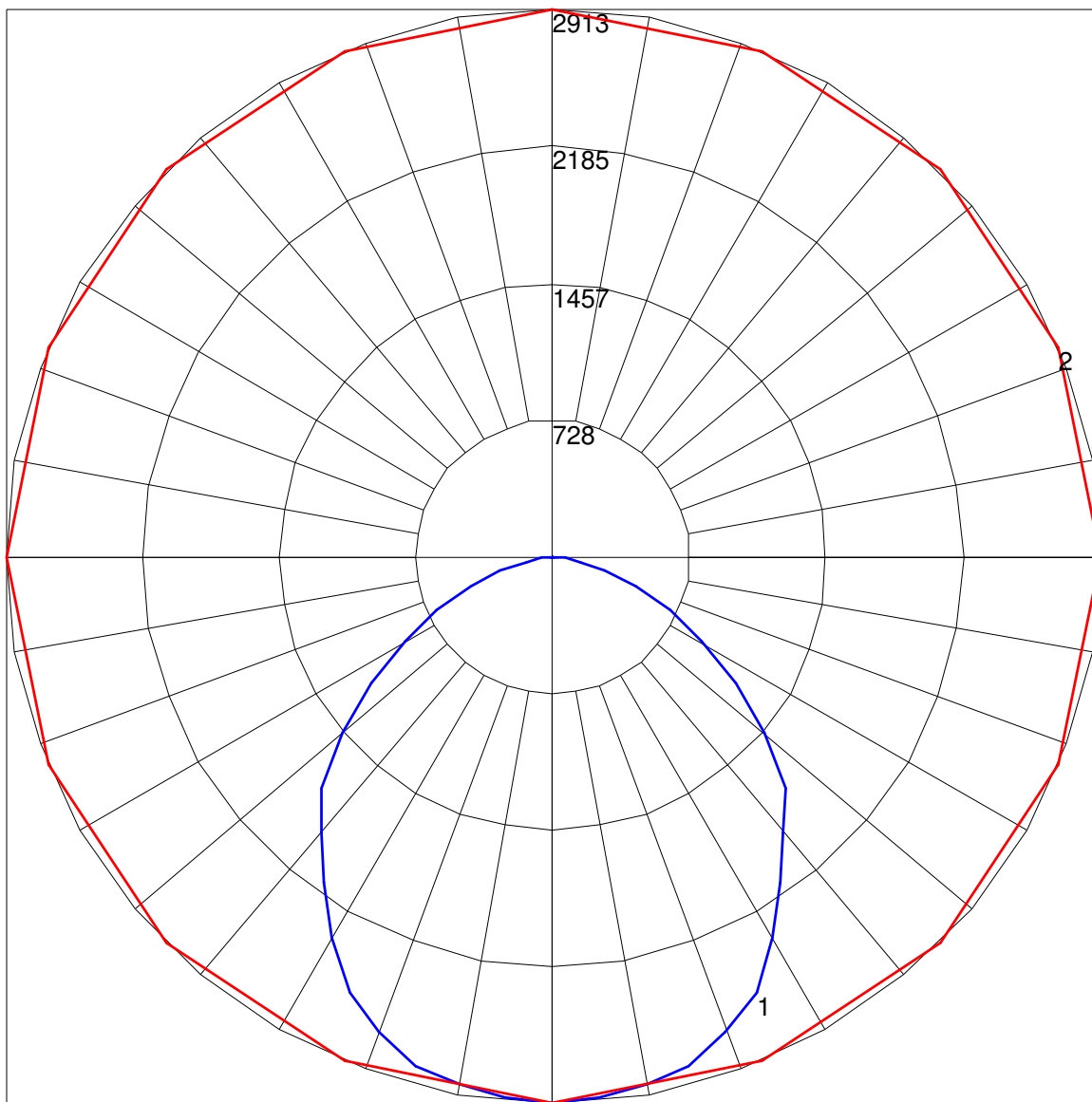
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	15.6	17.1	16.0	17.5	17.9	17.6	19.2	18.1	19.6	20.0
	3H	16.8	18.2	17.3	18.6	19.1	19.7	21.1	20.1	21.5	21.9
	4H	17.2	18.5	17.6	18.9	19.4	20.5	21.8	21.0	22.2	22.7
	6H	17.3	18.6	17.8	19.0	19.5	21.3	22.5	21.8	23.0	23.5
	8H	17.4	18.5	17.9	19.0	19.5	21.7	22.9	22.2	23.3	23.8
	12H	17.4	18.5	17.8	18.9	19.5	22.1	23.2	22.6	23.7	24.2
4H	2H	16.4	17.7	16.9	18.2	18.6	18.0	19.4	18.5	19.8	20.3
	3H	17.9	19.0	18.4	19.5	20.0	20.3	21.4	20.8	21.9	22.4
	4H	18.4	19.4	18.9	19.9	20.4	21.2	22.3	21.7	22.7	23.3
	6H	18.6	19.5	19.2	20.0	20.6	22.2	23.1	22.7	23.6	24.2
	8H	18.7	19.5	19.2	20.1	20.6	22.7	23.5	23.2	24.0	24.6
	12H	18.7	19.5	19.3	20.0	20.6	23.2	23.9	23.8	24.5	25.1
8H	4H	18.9	19.7	19.4	20.2	20.8	21.4	22.3	22.0	22.8	23.3
	6H	19.3	20.0	19.9	20.6	21.1	22.5	23.2	23.1	23.8	24.3
	8H	19.5	20.1	20.0	20.7	21.2	23.1	23.7	23.7	24.3	24.9
	12H	19.5	20.1	20.1	20.7	21.3	23.7	24.3	24.3	24.9	25.5
12H	4H	19.0	19.7	19.5	20.3	20.9	21.4	22.2	22.0	22.7	23.3
	6H	19.5	20.1	20.1	20.7	21.3	22.5	23.2	23.1	23.7	24.3
	8H	19.7	20.3	20.3	20.8	21.5	23.2	23.7	23.8	24.3	24.9

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 2913.381 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)