



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SIA3-GW-4-L20-835-AC-DXX-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 17976.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE]DATE] 13-FEB-2019

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

[LUMINAIRE] 88 LEDS (2-22"BOARD)4'SUSPEND BIDIRECT w/FROST ACRYLIC LED

[MORE] LENS, WHITE (46) .625x.75"SLOTS ASIDE SMOOTH FROST ACRYLIC

[MORE] SIDE LENSES, ADVANCE DRIVER

[LUMCAT] SIA2-GW-4-L20-835-AC-Dxx-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7845
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	67.6
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.91 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.22 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	229	498
55	10	404	862
65	13	631	1313
75	57	873	1752
85	42	1143	2091

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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	5.860	5.860	5.860	5.860	5.860
5	0.000	1.172	2.344	7.032	8.204
10	0.000	1.172	2.344	8.204	10.548
15	0.000	0.000	3.516	9.376	11.719
20	0.000	1.172	8.204	16.407	19.923
25	0.000	0.000	10.548	24.611	32.814
30	0.000	1.172	17.579	36.330	43.362
35	0.000	4.688	29.299	46.878	58.597
40	0.000	9.376	36.330	62.113	76.176
45	0.000	12.891	42.190	78.520	97.271
50	0.000	15.235	55.081	101.959	123.054
55	1.172	18.751	66.801	125.398	153.525
60	0.000	19.923	79.692	146.493	180.480
65	1.172	24.611	89.068	167.588	203.918
70	0.000	28.127	96.099	178.136	217.982
75	3.516	31.643	98.443	183.995	223.841
80	2.344	30.471	100.787	183.995	220.326
85	1.172	29.299	92.584	169.932	201.575
90	3.516	50.394	212.122	257.828	276.579
95	55.081	153.525	472.294	526.203	523.859
100	148.837	247.280	657.461	802.782	781.687
105	267.203	385.570	810.986	1120.379	1068.814
110	392.602	528.547	941.072	1475.479	1455.556
115	540.267	669.181	1059.438	1754.402	1873.940
120	698.479	816.846	1195.384	1872.768	2158.723
125	846.144	952.791	1319.610	1858.705	2166.926
130	991.465	1084.049	1449.696	1859.877	2071.999
135	1144.990	1221.167	1545.795	1920.818	2042.700
140	1284.452	1358.284	1611.424	1978.243	2090.750
145	1406.334	1462.587	1648.927	1986.447	2115.361
150	1530.560	1561.031	1681.741	1924.334	2050.904
155	1639.551	1653.614	1714.555	1839.954	1913.786
160	1735.651	1752.058	1762.605	1812.999	1842.298
165	1805.967	1823.546	1807.139	1821.202	1836.438
170	1857.533	1871.596	1856.361	1850.501	1854.017
175	1891.519	1905.583	1895.035	1889.175	1873.940
180	1907.926	1907.926	1907.926	1907.926	1907.926

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2.05	N.A.	0.00
0-30	8.40	N.A.	0.10
0-40	25.96	N.A.	0.30
0-60	126.64	N.A.	1.60
0-80	332.73	N.A.	4.20
0-90	460.54	N.A.	5.90
10-90	460.14	N.A.	5.90
20-40	23.91	N.A.	0.30
20-50	60.12	N.A.	0.80
40-70	194.79	N.A.	2.50
60-80	206.09	N.A.	2.60
70-80	111.98	N.A.	1.40
80-90	127.81	N.A.	1.60
90-110	1182.3	N.A.	15.10
90-120	2332.1	N.A.	29.70
90-130	3593.49	N.A.	45.80
90-150	5879.57	N.A.	74.90
90-180	7384.67	N.A.	94.10
110-180	6202.36	N.A.	79.10
0-180	7845.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.40
10-20	1.65
20-30	6.35
30-40	17.56
40-50	36.21
50-60	64.48
60-70	94.10
70-80	111.98
80-90	127.81
90-100	389.40
100-110	792.91
110-120	1149.8
120-130	1261.38
130-140	1214.58
140-150	1071.51
150-160	810.86
160-170	514.59
170-180	179.65

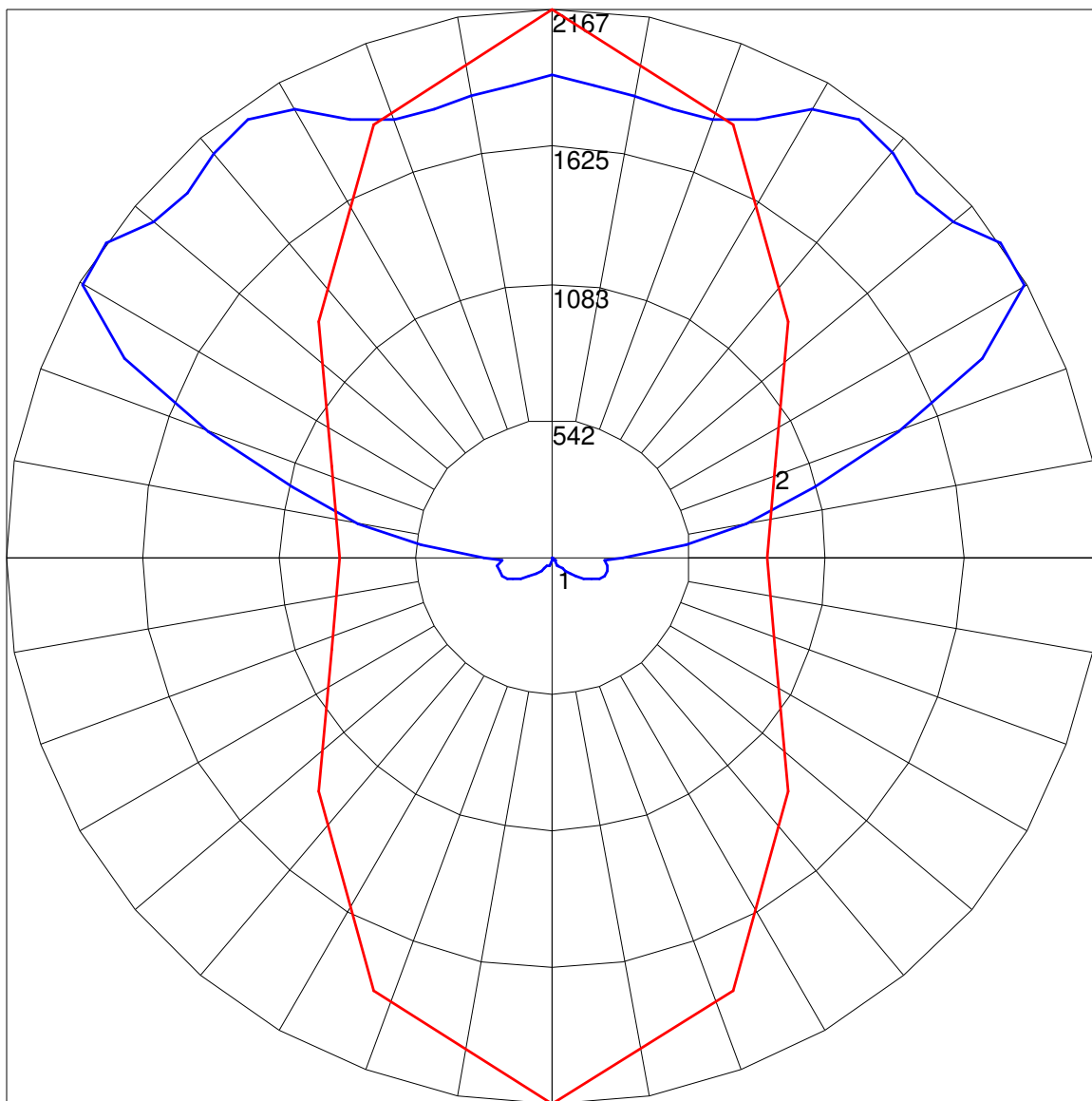
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	97	97	97	83	83	83	83	59	59	59	36	36	36	16	16	16	6
1	87	83	79	75	75	71	68	65	50	48	46	30	29	28	12	12	11	3
2	79	72	66	61	68	62	57	53	43	40	37	26	24	23	10	10	9	2
3	72	63	56	50	61	54	48	43	38	34	31	23	21	19	9	8	7	1
4	65	55	47	42	56	47	41	36	33	29	26	20	18	16	8	7	6	1
5	60	49	41	35	51	42	36	31	29	25	22	18	15	13	7	6	5	1
6	55	43	36	30	47	37	31	26	26	22	19	16	13	11	6	5	4	1
7	50	39	31	26	43	33	27	23	24	19	16	14	12	10	6	4	4	0
8	46	35	28	23	40	30	24	20	21	17	14	13	10	9	5	4	3	0
9	43	31	24	20	37	27	21	17	19	15	12	12	9	8	5	4	3	0
10	40	29	22	17	34	25	19	15	18	14	11	11	8	7	4	3	2	0

POLAR GRAPH



Maximum Candela = 2166.926 Located At Horizontal Angle = 90, Vertical Angle = 125
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (125) (Through Max. Cd.)