



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ASMS-8-P35-8TW-A-POE 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 18639.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 03-MAR-2020

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

[LUMINAIRE] 4-56 LED 22" ARRAYS 8' DIRECT/INDIRECT PENDANT MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED CURVED LINEAR RIBBED ACRYLIC LENS

[LUMCAT] ASMS-8-P35/8TW-A-PoE 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3543
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	26.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.90 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.08 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2781	2590	2523
55	2288	2176	2121
65	1809	1814	1767
75	1342	1475	1430
85	933	1281	1316

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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	1355.825	1355.825	1355.825	1355.825	1355.825
5	1378.143	1379.538	1376.748	1376.748	1376.748
10	1343.271	1339.087	1339.087	1337.692	1337.692
15	1318.163	1313.979	1313.979	1311.189	1309.794
20	1255.394	1252.604	1245.630	1240.050	1238.655
25	1192.624	1191.229	1184.255	1178.675	1178.675
30	1107.536	1103.352	1097.772	1094.982	1094.982
35	1036.397	1035.002	1035.002	1035.002	1035.002
40	909.463	909.463	917.832	920.622	919.227
45	790.898	796.478	813.216	818.796	818.796
50	656.989	669.543	691.861	700.231	700.231
55	530.055	548.189	578.876	591.430	590.035
60	414.280	435.203	474.260	486.814	486.814
65	311.059	338.956	380.803	396.146	394.752
70	220.391	251.079	295.715	308.269	306.874
75	143.673	170.176	217.602	231.550	231.550
80	82.298	106.011	153.437	172.965	175.755
85	36.267	57.190	103.221	124.144	125.539
90	8.369	27.898	58.585	80.903	83.693
95	0.000	6.974	30.687	50.216	54.400
100	0.000	0.000	11.159	27.898	33.477
105	0.000	0.000	0.000	15.344	18.133
110	0.000	0.000	0.000	8.369	9.764
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	2.790	0.000
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
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	498.15	N.A.	14.10
0-30	1042.22	N.A.	29.40
0-40	1682.01	N.A.	47.50
0-60	2814.17	N.A.	79.40
0-80	3396.84	N.A.	95.90
0-90	3499.43	N.A.	98.80
10-90	3369.57	N.A.	95.10
20-40	1183.86	N.A.	33.40
20-50	1804.82	N.A.	50.90
40-70	1497.46	N.A.	42.30
60-80	582.67	N.A.	16.40
70-80	217.37	N.A.	6.10
80-90	102.59	N.A.	2.90
90-110	41.92	N.A.	1.20
90-120	42.93	N.A.	1.20
90-130	43.09	N.A.	1.20
90-150	43.09	N.A.	1.20
90-180	43.09	N.A.	1.20
110-180	1.17	N.A.	0.00
0-180	3542.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	129.86
10-20	368.28
20-30	544.08
30-40	639.79
40-50	620.96
50-60	511.20
60-70	365.30
70-80	217.37
80-90	102.59
90-100	34.09
100-110	7.83
110-120	1.01
120-130	0.16
130-140	0.00
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	181	181	181	181	176	176	176	176	168	168	168	160	160	160	154	154	154	150
1	165	158	151	145	161	154	148	143	147	142	138	141	137	133	135	132	129	126
2	150	138	128	119	146	135	126	118	129	122	115	124	118	112	119	114	109	106
3	138	122	110	100	134	119	108	99	115	105	97	110	102	95	106	99	93	90
4	126	109	95	85	123	106	94	85	102	92	83	99	89	82	95	87	81	77
5	117	97	84	74	113	96	83	74	92	81	73	89	79	72	86	77	71	67
6	108	88	75	65	105	86	74	65	83	72	64	81	71	63	78	69	63	59
7	100	80	67	58	97	79	66	57	76	65	57	74	64	56	72	63	56	53
8	93	73	60	52	91	72	60	51	70	59	51	68	58	51	66	57	50	47
9	87	67	55	47	85	66	54	46	64	54	46	63	53	46	61	52	45	43
10	82	62	50	42	80	61	50	42	60	49	42	58	48	42	57	48	41	39

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UGR TABLE - CORRECTED

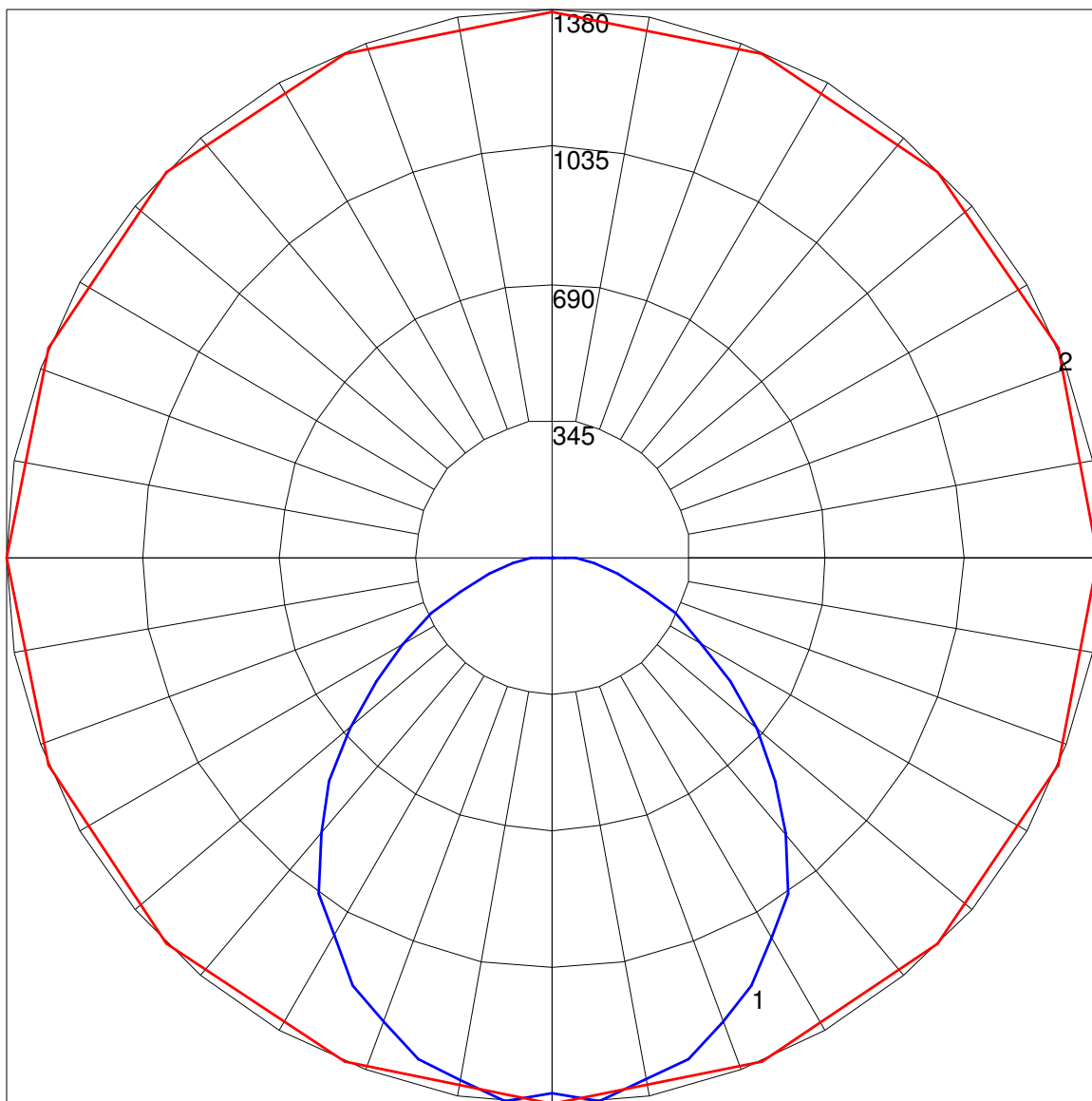
Reflectances

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	14.6	16.2	15.0	16.5	16.9	15.7	17.3	16.1	17.6	18.0
	3H	15.9	17.3	16.3	17.7	18.0	17.5	18.9	17.9	19.2	19.6
	4H	16.3	17.6	16.7	18.0	18.4	18.2	19.6	18.6	19.9	20.3
	6H	16.5	17.8	16.9	18.1	18.6	18.9	20.2	19.3	20.5	21.0
	8H	16.6	17.8	17.0	18.2	18.6	19.3	20.4	19.7	20.9	21.3
	12H	16.6	17.7	17.0	18.1	18.6	19.6	20.8	20.1	21.2	21.6
4H	2H	15.3	16.7	15.7	17.0	17.4	16.2	17.5	16.6	17.9	18.3
	3H	16.8	17.9	17.2	18.4	18.8	18.2	19.3	18.6	19.7	20.1
	4H	17.3	18.3	17.8	18.8	19.2	19.0	20.1	19.5	20.5	21.0
	6H	17.6	18.5	18.1	19.0	19.5	19.9	20.8	20.4	21.3	21.8
	8H	17.7	18.6	18.2	19.0	19.5	20.4	21.2	20.8	21.7	22.1
	12H	17.8	18.5	18.3	19.0	19.5	20.8	21.6	21.3	22.1	22.6
8H	4H	17.7	18.6	18.2	19.0	19.5	19.3	20.1	19.7	20.6	21.1
	6H	18.2	18.9	18.7	19.4	19.9	20.3	21.0	20.8	21.5	22.0
	8H	18.4	19.0	18.9	19.5	20.0	20.9	21.5	21.4	22.0	22.5
	12H	18.5	19.0	19.0	19.5	20.1	21.4	22.0	22.0	22.5	23.1
12H	4H	17.8	18.6	18.3	19.1	19.6	19.3	20.0	19.8	20.5	21.0
	6H	18.4	19.0	18.9	19.5	20.0	20.4	21.0	20.9	21.5	22.0
	8H	18.6	19.1	19.1	19.6	20.2	20.9	21.5	21.5	22.0	22.6

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 1379.538 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)