



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-2-P34-8TW-POEN 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17875.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 25-OCT-2019

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

[LUMINAIRE] 2' PoE STRIP w/WHITE REFLECTOR

[LUMCAT] 75-2-P34/8TW-PoEN 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3449
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	22.75
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.62 ft
Luminous Width (90-270)	0.22 ft
Luminous Height	0.01 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	35005	33501	33091
55	34100	32282	31678
65	31744	29279	28444
75	26693	23638	22765
85	13825	13258	11072

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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	1170.989	1170.989	1170.989	1170.989	1170.989
5	1179.546	1172.212	1167.322	1164.063	1162.841
10	1166.508	1159.174	1153.469	1150.210	1148.580
15	1146.950	1137.579	1131.875	1126.986	1128.615
20	1115.985	1108.243	1101.724	1096.835	1099.687
25	1076.870	1070.351	1060.980	1056.906	1055.276
30	1032.866	1023.495	1012.902	1009.642	1001.086
35	976.639	968.898	956.675	954.230	945.266
40	911.449	895.151	888.632	884.150	881.705
45	835.257	815.292	811.218	807.551	804.699
50	750.916	732.581	729.322	727.692	718.321
55	660.872	641.722	638.870	638.870	630.721
60	563.085	545.973	537.824	541.491	529.268
65	454.298	441.668	432.296	440.038	423.740
70	344.289	328.399	323.509	331.658	319.027
75	235.094	219.611	219.611	219.611	214.722
80	125.085	122.640	122.640	120.603	115.714
85	41.967	44.004	46.856	44.819	40.744
90	3.667	3.667	5.704	3.667	3.667
95	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	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	431.24	N.A.	12.50
0-30	921.68	N.A.	26.70
0-40	1521.53	N.A.	44.10
0-60	2721.38	N.A.	78.90
0-80	3389.46	N.A.	98.30
0-90	3447.78	N.A.	100.00
10-90	3336.68	N.A.	96.70
20-40	1090.29	N.A.	31.60
20-50	1718.02	N.A.	49.80
40-70	1632.58	N.A.	47.30
60-80	668.08	N.A.	19.40
70-80	235.34	N.A.	6.80
80-90	58.32	N.A.	1.70
90-110	1.14	N.A.	0.00
90-120	1.14	N.A.	0.00
90-130	1.14	N.A.	0.00
90-150	1.14	N.A.	0.00
90-180	1.14	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3448.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.10
10-20	320.14
20-30	490.44
30-40	599.85
40-50	627.73
50-60	572.12
60-70	432.74
70-80	235.34
80-90	58.32
90-100	1.14
100-110	0.00
110-120	0.00
120-130	0.00
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	168	168	168	168	164	164	164	164	157	157	157	150	150	150	144	144	144	141
1	154	147	141	135	150	144	138	133	138	133	129	132	128	125	127	124	121	118
2	140	128	118	110	136	125	116	109	120	113	106	115	109	104	111	106	101	98
3	127	112	100	91	124	110	99	90	106	96	89	102	94	87	98	91	86	83
4	116	99	87	77	113	97	86	76	94	83	75	90	81	74	87	80	73	70
5	107	88	76	66	104	87	75	66	84	73	65	81	72	64	78	70	64	61
6	99	79	67	58	96	78	66	57	76	65	57	73	64	56	71	62	56	53
7	91	72	60	51	89	71	59	51	69	58	50	67	57	50	65	56	49	47
8	85	66	54	45	83	65	53	45	63	52	45	61	51	44	59	51	44	41
9	79	60	48	41	77	59	48	40	58	47	40	56	47	40	55	46	40	37
10	74	55	44	37	72	55	44	37	53	43	36	52	43	36	51	42	36	34

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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	23.2	24.9	23.6	25.2	25.5	23.1	24.8	23.5	25.1	25.4
	3H	25.0	26.5	25.4	26.8	27.2	24.9	26.3	25.2	26.7	27.0
	4H	25.6	27.1	26.0	27.4	27.8	25.4	26.9	25.8	27.2	27.6
	6H	26.1	27.4	26.5	27.7	28.1	25.8	27.1	26.2	27.5	27.9
	8H	26.2	27.4	26.6	27.8	28.2	25.9	27.2	26.4	27.6	28.0
	12H	26.2	27.4	26.7	27.8	28.2	26.0	27.2	26.4	27.6	28.0

UGR Viewed Endwise

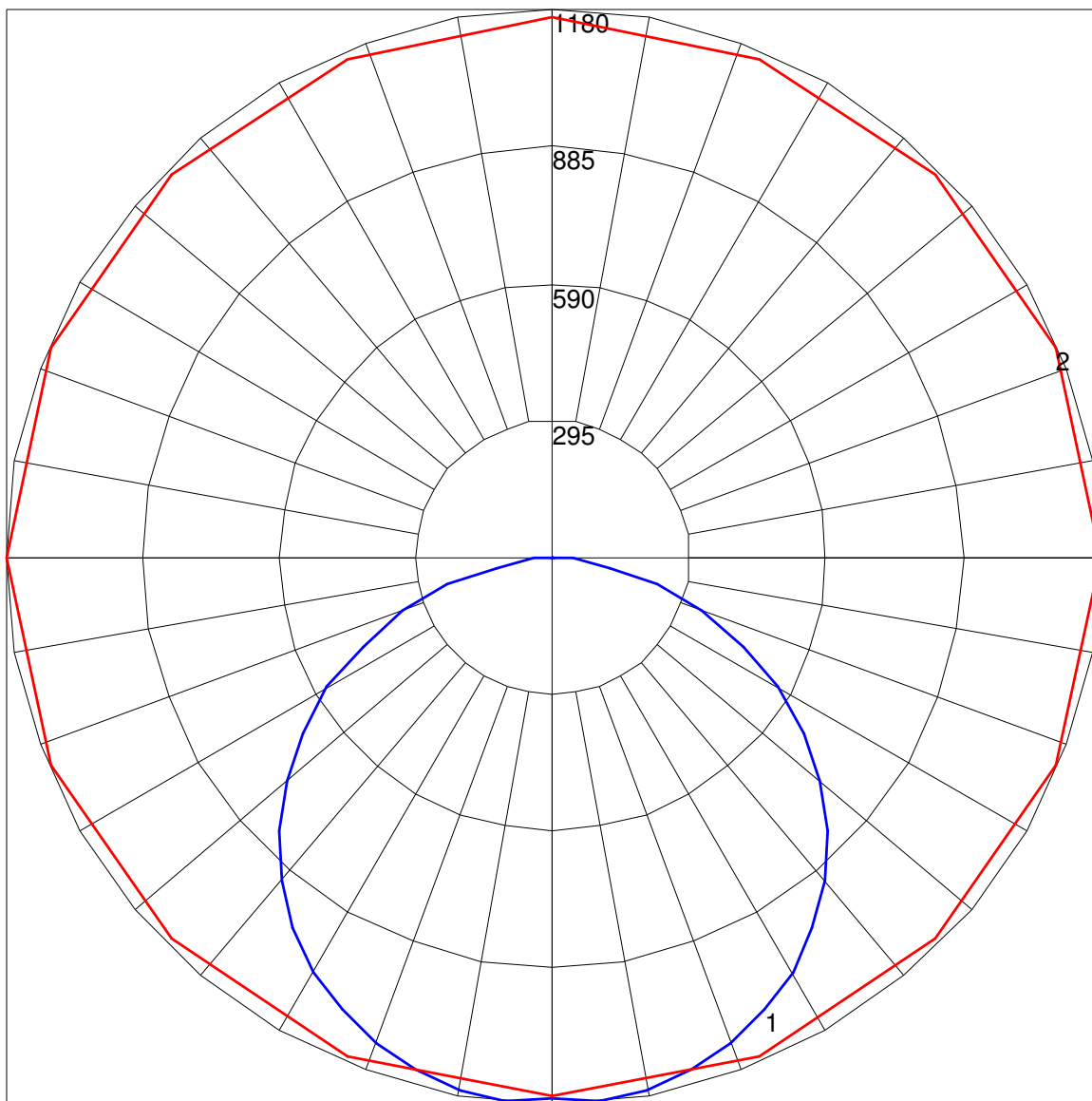
4H	2H	23.8	25.2	24.2	25.6	25.9	23.7	25.1	24.1	25.5	25.8
	3H	25.8	27.0	26.2	27.4	27.8	25.7	26.9	26.1	27.3	27.7
	4H	26.5	27.6	27.0	28.0	28.4	26.4	27.5	26.8	27.9	28.3
	6H	27.1	28.0	27.5	28.4	28.9	26.9	27.8	27.3	28.3	28.7
	8H	27.2	28.1	27.7	28.5	29.0	27.0	27.9	27.5	28.3	28.8
	12H	27.3	28.1	27.8	28.5	29.0	27.1	27.9	27.6	28.4	28.8

8H	4H	26.8	27.7	27.2	28.1	28.6	26.7	27.5	27.1	28.0	28.4
	6H	27.4	28.1	27.9	28.6	29.1	27.2	28.0	27.7	28.5	28.9
	8H	27.6	28.3	28.1	28.8	29.2	27.5	28.1	28.0	28.6	29.1
	12H	27.7	28.3	28.2	28.8	29.4	27.6	28.1	28.1	28.6	29.2

12H	4H	26.8	27.6	27.3	28.1	28.5	26.7	27.5	27.2	27.9	28.4
	6H	27.5	28.1	28.0	28.6	29.1	27.3	28.0	27.8	28.4	28.9
	8H	27.7	28.3	28.2	28.7	29.3	27.5	28.1	28.0	28.6	29.1

Maximum UGR = 29.4

POLAR GRAPH



Maximum Candela = 1179.546 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.)