



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-2-P23-8TW-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

[ISSUEDATE] 25-OCT-2019

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

[LUMINAIRE] 2' PoE STRIP w/WHITE REFLECTOR

[LUMCAT] 75-2-P23/8TW-PoEN 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2441
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	15.2
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	24775	23710	23420
55	24134	22847	22420
65	22467	20722	20131
75	18892	16729	16112
85	9784	9383	7836

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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	828.758	828.758	828.758	828.758	828.758
5	834.813	829.623	826.162	823.855	822.990
10	825.586	820.395	816.358	814.051	812.898
15	811.744	805.112	801.075	797.614	798.768
20	789.828	784.350	779.736	776.275	778.294
25	762.146	757.532	750.899	748.016	746.862
30	731.002	724.370	716.872	714.566	708.510
35	691.208	685.729	677.078	675.348	669.004
40	645.070	633.535	628.921	625.749	624.019
45	591.146	577.016	574.132	571.537	569.519
50	531.455	518.478	516.171	515.018	508.385
55	467.726	454.173	452.154	452.154	446.387
60	398.519	386.408	380.640	383.236	374.585
65	321.526	312.586	305.954	311.433	299.898
70	243.667	232.421	228.961	234.728	225.789
75	166.386	155.428	155.428	155.428	151.968
80	88.528	86.798	86.798	85.356	81.895
85	29.701	31.143	33.162	31.720	28.836
90	2.595	2.595	4.037	2.595	2.595
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	305.21	N.A.	12.50
0-30	652.31	N.A.	26.70
0-40	1076.85	N.A.	44.10
0-60	1926.03	N.A.	78.90
0-80	2398.86	N.A.	98.30
0-90	2440.13	N.A.	100.00
10-90	2361.5	N.A.	96.70
20-40	771.65	N.A.	31.60
20-50	1215.92	N.A.	49.80
40-70	1155.45	N.A.	47.30
60-80	472.83	N.A.	19.40
70-80	166.56	N.A.	6.80
80-90	41.28	N.A.	1.70
90-110	0.81	N.A.	0.00
90-120	0.81	N.A.	0.00
90-130	0.81	N.A.	0.00
90-150	0.81	N.A.	0.00
90-180	0.81	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2440.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	78.63
10-20	226.58
20-30	347.11
30-40	424.54
40-50	444.27
50-60	404.91
60-70	306.27
70-80	166.56
80-90	41.28
90-100	0.81
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	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	71
1	78	74	71	68	76	73	70	67	70	67	65	67	65	63	64	63	61	60
2	70	65	60	56	69	63	59	55	61	57	54	58	55	52	56	54	51	50
3	64	57	51	46	62	55	50	46	53	49	45	51	47	44	50	46	43	42
4	59	50	44	39	57	49	43	39	47	42	38	46	41	38	44	40	37	35
5	54	45	38	33	52	44	38	33	42	37	33	41	36	32	40	35	32	31
6	50	40	34	29	48	39	33	29	38	33	29	37	32	28	36	32	28	27
7	46	36	30	26	45	36	30	26	35	29	25	34	29	25	33	28	25	24
8	43	33	27	23	42	33	27	23	32	26	23	31	26	22	30	26	22	21
9	40	30	24	20	39	30	24	20	29	24	20	28	24	20	28	23	20	19
10	38	28	22	19	37	28	22	19	27	22	18	26	22	18	26	21	18	17

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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	21.6	23.3	22.0	23.6	23.9	21.5	23.2	21.9	23.5	23.8
	3H	23.4	24.9	23.8	25.2	25.6	23.3	24.8	23.6	25.1	25.4
	4H	24.1	25.5	24.5	25.8	26.2	23.9	25.3	24.3	25.6	26.0
	6H	24.5	25.8	24.9	26.1	26.5	24.2	25.5	24.6	25.9	26.3
	8H	24.6	25.8	25.0	26.2	26.6	24.3	25.6	24.8	26.0	26.4
	12H	24.6	25.8	25.1	26.2	26.6	24.4	25.6	24.8	26.0	26.4

UGR Viewed Endwise

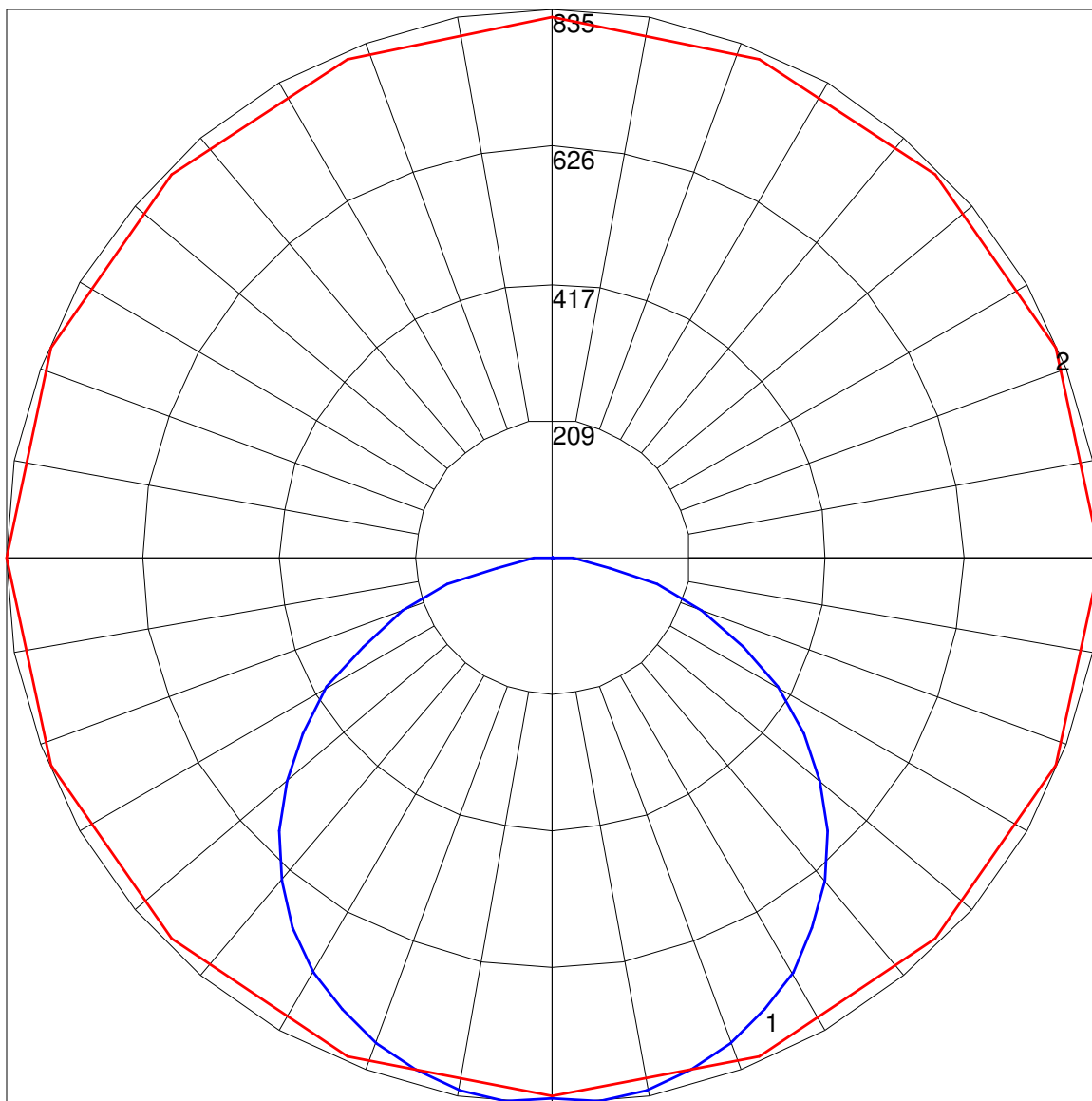
4H	2H	22.2	23.6	22.6	24.0	24.3	22.1	23.5	22.5	23.9	24.3
	3H	24.2	25.4	24.6	25.8	26.2	24.1	25.3	24.5	25.7	26.1
	4H	25.0	26.0	25.4	26.4	26.9	24.8	25.9	25.2	26.3	26.7
	6H	25.5	26.4	25.9	26.8	27.3	25.3	26.2	25.8	26.7	27.1
	8H	25.6	26.5	26.1	26.9	27.4	25.4	26.3	25.9	26.8	27.2
	12H	25.7	26.5	26.2	27.0	27.4	25.5	26.3	26.0	26.8	27.2

8H	4H	25.2	26.1	25.7	26.5	27.0	25.1	25.9	25.5	26.4	26.8
	6H	25.8	26.5	26.3	27.0	27.5	25.7	26.4	26.2	26.9	27.4
	8H	26.0	26.7	26.5	27.2	27.7	25.9	26.5	26.4	27.0	27.5
	12H	26.1	26.7	26.7	27.2	27.8	26.0	26.6	26.5	27.1	27.6

12H	4H	25.2	26.0	25.7	26.5	26.9	25.1	25.9	25.6	26.3	26.8
	6H	25.9	26.5	26.4	27.0	27.5	25.7	26.4	26.2	26.8	27.4
	8H	26.1	26.7	26.6	27.2	27.7	25.9	26.5	26.4	27.0	27.6

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 834.813 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.)