



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-P145-850-(P102)-POE PR_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 11-11-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 89 INCH LENSED LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[MORE] POWER OVER ETHERNET LUMINAIRE

[LUMCAT] 75R-8-P145-850-(P102)-POE PR

[LAMPCAT] HLM 80 CRI 5000K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10988
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	177
Total Luminaire Watts	62
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19474	16360	16213
55	16164	14029	14273
65	13437	11814	12024
75	9260	9744	9852
85	5890	8420	8079

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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	3519.638	3519.638	3519.638	3519.638	3519.638
5	3558.278	3506.197	3507.877	3499.477	3464.197
10	3499.477	3455.797	3464.197	3459.157	3427.237
15	3396.996	3365.076	3388.596	3398.676	3365.076
20	3242.435	3234.035	3274.355	3291.155	3270.995
25	3060.993	3072.753	3129.873	3168.514	3153.394
30	2852.670	2869.471	2966.912	3025.712	3022.352
35	2598.988	2629.228	2770.350	2852.670	2864.431
40	2328.505	2350.345	2528.427	2652.748	2681.309
45	2009.301	2064.742	2269.704	2434.346	2474.666
50	1678.338	1767.379	2017.702	2197.463	2247.864
55	1360.815	1476.736	1758.979	1947.141	2019.382
60	1095.372	1202.893	1510.336	1698.498	1774.099
65	841.689	959.290	1278.494	1449.855	1515.376
70	589.686	747.608	1058.411	1207.933	1271.774
75	362.884	564.486	855.129	996.251	1051.691
80	201.602	389.764	682.087	813.129	848.409
85	85.681	268.803	544.326	656.887	680.407
90	11.760	184.802	421.685	520.806	552.726
95	1.680	126.001	337.684	413.284	446.885
100	0.000	82.321	262.083	337.684	364.564
105	0.000	58.801	203.282	275.523	297.363
110	0.000	40.320	156.242	225.122	243.603
115	0.000	33.600	127.681	188.162	201.602
120	0.000	25.200	97.441	154.562	168.002
125	0.000	15.120	72.241	122.641	137.761
130	0.000	10.080	52.081	95.761	109.201
135	0.000	5.040	38.640	75.601	85.681
140	0.000	5.040	26.880	58.801	67.201
145	0.000	0.000	16.800	36.960	47.041
150	0.000	0.000	11.760	26.880	33.600
155	0.000	0.000	8.400	13.440	21.840
160	0.000	0.000	3.360	10.080	11.760
165	0.000	0.000	0.000	3.360	5.040
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	1287.04	N.A.	11.70
0-30	2724.66	N.A.	24.80
0-40	4440.2	N.A.	40.40
0-60	7718.98	N.A.	70.20
0-80	9759.77	N.A.	88.80
0-90	10272.7	N.A.	93.50
10-90	9939.48	N.A.	90.50
20-40	3153.16	N.A.	28.70
20-50	4891.42	N.A.	44.50
40-70	4487.59	N.A.	40.80
60-80	2040.79	N.A.	18.60
70-80	831.98	N.A.	7.60
80-90	512.92	N.A.	4.70
90-110	489.48	N.A.	4.50
90-120	601.70	N.A.	5.50
90-130	665.41	N.A.	6.10
90-150	710.89	N.A.	6.50
90-180	715.65	N.A.	6.50
110-180	226.16	N.A.	2.10
0-180	10988.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	333.22
10-20	953.82
20-30	1437.63
30-40	1715.53
40-50	1738.26
50-60	1540.53
60-70	1208.81
70-80	831.98
80-90	512.92
90-100	305.39
100-110	184.09
110-120	112.22
120-130	63.70
130-140	32.18
140-150	13.29
150-160	4.16
160-170	0.61
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	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	62
3	88	77	68	61	84	75	67	61	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	45	41	39
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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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	18.7	20.2	19.1	20.6	21.1	22.1	23.6	22.6	24.1	24.5
	3H	19.9	21.2	20.3	21.7	22.2	24.3	25.7	24.8	26.2	26.7
	4H	20.2	21.5	20.7	22.0	22.5	25.4	26.7	25.9	27.1	27.7
	6H	20.4	21.6	20.9	22.1	22.6	26.4	27.6	27.0	28.1	28.7
	8H	20.4	21.5	20.9	22.1	22.6	27.0	28.1	27.5	28.6	29.2
	12H	20.4	21.5	20.9	22.0	22.6	27.6	28.7	28.1	29.2	29.8

UGR Viewed Endwise

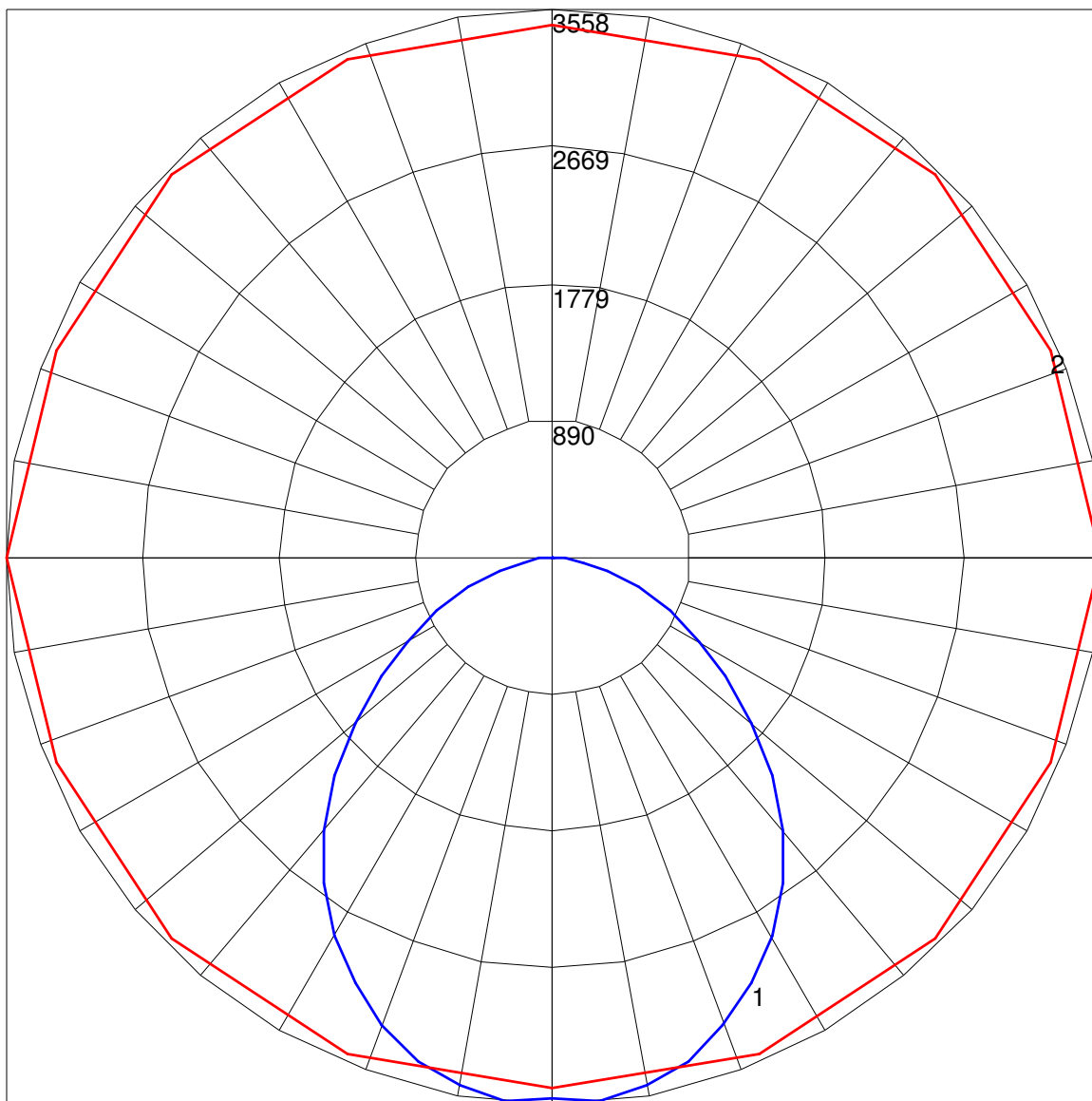
4H	2H	19.7	21.0	20.3	21.5	22.1	22.4	23.7	22.9	24.2	24.7
	3H	21.2	22.3	21.7	22.8	23.4	24.9	26.0	25.4	26.5	27.0
	4H	21.6	22.6	22.2	23.2	23.8	26.1	27.1	26.6	27.6	28.2
	6H	21.9	22.8	22.5	23.4	24.0	27.3	28.2	27.9	28.8	29.4
	8H	22.0	22.8	22.6	23.4	24.0	28.0	28.8	28.5	29.3	30.0
	12H	22.0	22.8	22.6	23.4	24.0	28.7	29.4	29.3	30.0	30.6

8H	4H	22.4	23.2	23.0	23.8	24.4	26.2	27.0	26.8	27.6	28.2
	6H	22.9	23.6	23.5	24.2	24.8	27.6	28.3	28.2	28.9	29.5
	8H	23.0	23.7	23.7	24.3	24.9	28.4	29.0	29.0	29.6	30.3
	12H	23.1	23.7	23.7	24.3	25.0	29.3	29.8	29.9	30.4	31.1

12H	4H	22.6	23.4	23.2	24.0	24.6	26.2	27.0	26.8	27.6	28.2
	6H	23.2	23.8	23.8	24.4	25.1	27.7	28.3	28.3	28.9	29.5
	8H	23.4	24.0	24.1	24.6	25.3	28.5	29.0	29.1	29.6	30.3

Maximum UGR = 31.1

POLAR GRAPH



Maximum Candela = 3558.278 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.)