



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-P145-850-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-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	14499
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	100
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	25696	21587	21393
55	21328	18511	18834
65	17730	15589	15866
75	12219	12857	13000
85	7772	11111	10660

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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	4644.154	4644.154	4644.154	4644.154	4644.154
5	4695.140	4626.420	4628.637	4617.553	4571.000
10	4617.553	4559.916	4571.000	4564.350	4522.231
15	4482.329	4440.210	4471.245	4484.546	4440.210
20	4278.385	4267.301	4320.504	4342.672	4316.071
25	4038.973	4054.491	4129.861	4180.847	4160.896
30	3764.092	3786.260	3914.833	3992.421	3987.987
35	3429.359	3469.261	3655.470	3764.092	3779.610
40	3072.457	3101.275	3336.254	3500.296	3537.981
45	2651.269	2724.423	2994.870	3212.114	3265.317
50	2214.563	2332.053	2662.353	2899.548	2966.052
55	1795.592	1948.550	2320.969	2569.248	2664.569
60	1445.341	1587.214	1992.885	2241.165	2340.920
65	1110.607	1265.781	1686.970	1913.081	1999.536
70	778.090	986.467	1396.571	1593.865	1678.102
75	478.824	744.838	1128.341	1314.551	1387.704
80	266.014	514.293	900.013	1072.921	1119.474
85	113.056	354.685	718.237	866.761	897.796
90	15.517	243.846	556.412	687.202	729.321
95	2.217	166.258	445.573	545.328	589.663
100	0.000	108.622	345.818	445.573	481.041
105	0.000	77.587	268.230	363.552	392.370
110	0.000	53.203	206.161	297.049	321.433
115	0.000	44.336	168.475	248.279	266.014
120	0.000	33.252	128.573	203.944	221.678
125	0.000	19.951	95.322	161.825	181.776
130	0.000	13.301	68.720	126.356	144.091
135	0.000	6.650	50.986	99.755	113.056
140	0.000	6.650	35.468	77.587	88.671
145	0.000	0.000	22.168	48.769	62.070
150	0.000	0.000	15.517	35.468	44.336
155	0.000	0.000	11.084	17.734	28.818
160	0.000	0.000	4.434	13.301	15.517
165	0.000	0.000	0.000	4.434	6.650
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	1698.24	N.A.	11.70
0-30	3595.19	N.A.	24.80
0-40	5858.83	N.A.	40.40
0-60	10185.18	N.A.	70.20
0-80	12878.00	N.A.	88.80
0-90	13554.8	N.A.	93.50
10-90	13115.12	N.A.	90.50
20-40	4160.59	N.A.	28.70
20-50	6454.21	N.A.	44.50
40-70	5921.37	N.A.	40.80
60-80	2692.82	N.A.	18.60
70-80	1097.8	N.A.	7.60
80-90	676.80	N.A.	4.70
90-110	645.87	N.A.	4.50
90-120	793.95	N.A.	5.50
90-130	878.00	N.A.	6.10
90-150	938.01	N.A.	6.50
90-180	944.30	N.A.	6.50
110-180	298.42	N.A.	2.10
0-180	14499.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	439.68
10-20	1258.56
20-30	1896.94
30-40	2263.64
40-50	2293.63
50-60	2032.72
60-70	1595.02
70-80	1097.8
80-90	676.80
90-100	402.97
100-110	242.90
110-120	148.08
120-130	84.05
130-140	42.47
140-150	17.54
150-160	5.48
160-170	0.80
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	117	117	117	117	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**

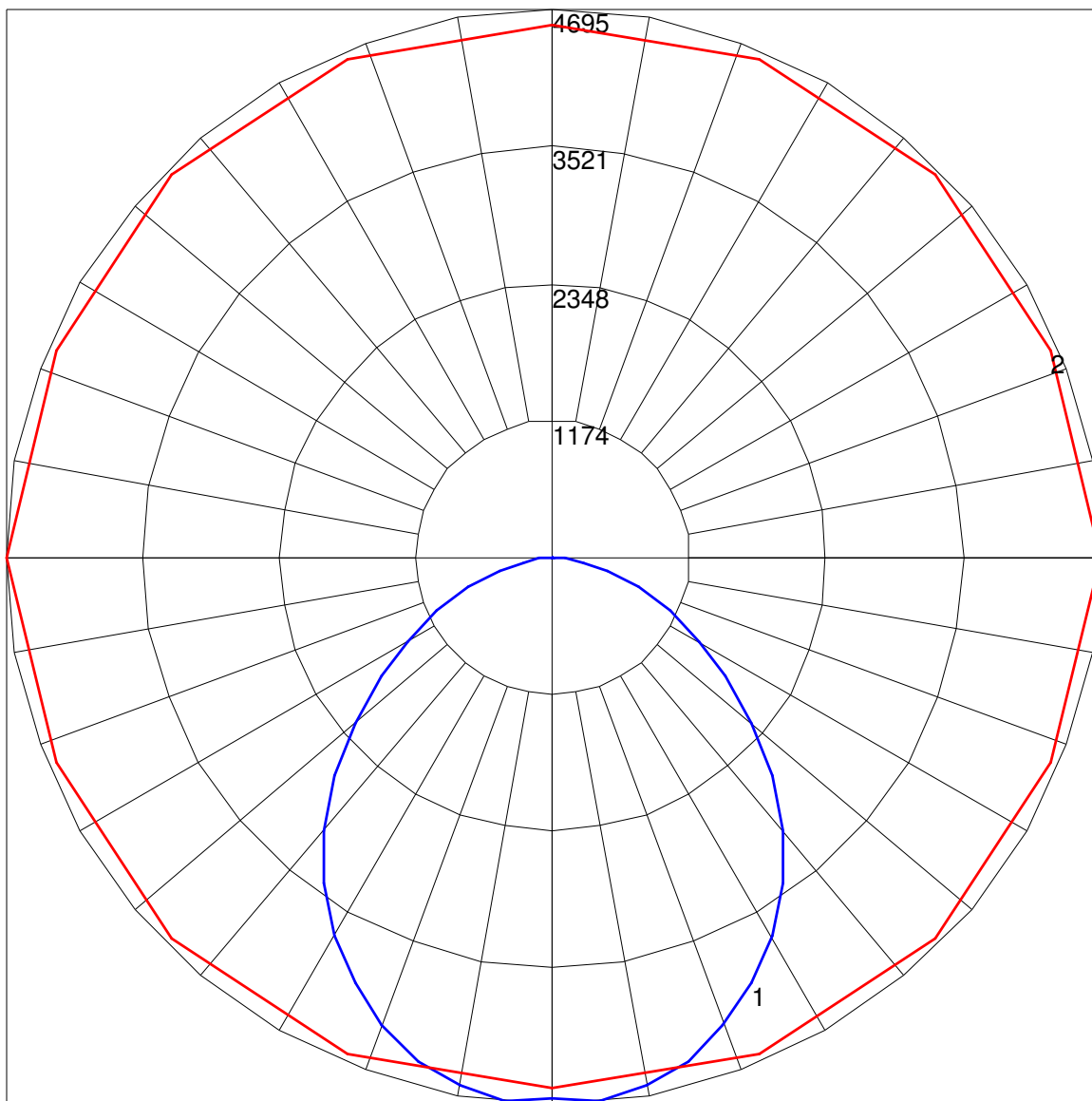
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.7	21.2	20.1	21.6	22.1	23.1	24.6	23.6	25.1	25.5
	3H	20.9	22.2	21.3	22.7	23.2	25.3	26.7	25.8	27.2	27.7
	4H	21.2	22.5	21.7	23.0	23.5	26.4	27.7	26.9	28.1	28.7
	6H	21.4	22.6	21.9	23.1	23.6	27.4	28.6	28.0	29.1	29.7
	8H	21.4	22.5	21.9	23.1	23.6	28.0	29.1	28.5	29.6	30.2
	12H	21.4	22.5	21.9	23.0	23.6	28.6	29.7	29.1	30.2	30.8
4H	2H	20.7	22.0	21.3	22.5	23.1	23.4	24.7	23.9	25.2	25.7
	3H	22.2	23.3	22.7	23.8	24.4	25.9	27.0	26.4	27.5	28.0
	4H	22.6	23.6	23.2	24.2	24.8	27.1	28.1	27.6	28.6	29.2
	6H	22.9	23.8	23.5	24.4	25.0	28.3	29.2	28.9	29.8	30.4
	8H	23.0	23.8	23.6	24.4	25.0	29.0	29.8	29.5	30.3	31.0
	12H	23.0	23.8	23.6	24.4	25.0	29.7	30.4	30.3	31.0	31.6
8H	4H	23.4	24.2	24.0	24.8	25.4	27.2	28.0	27.8	28.6	29.2
	6H	23.9	24.6	24.5	25.2	25.8	28.6	29.3	29.2	29.9	30.5
	8H	24.0	24.7	24.7	25.3	25.9	29.4	30.0	30.0	30.6	31.3
	12H	24.1	24.7	24.7	25.3	26.0	30.3	30.8	30.9	31.4	32.1
12H	4H	23.6	24.4	24.2	25.0	25.6	27.2	28.0	27.8	28.6	29.2
	6H	24.2	24.8	24.8	25.4	26.1	28.7	29.3	29.3	29.9	30.5
	8H	24.4	25.0	25.1	25.6	26.3	29.5	30.0	30.1	30.6	31.3

Maximum UGR = 32.1

POLAR GRAPH



Maximum Candela = 4695.14 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.)