



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-3-L64-835-DIM-UNV_.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] 31-AUG-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 3' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-3-L64-835-DIM-UNV

[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	6259
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	48.2
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)	2.80 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	28845	24492	24565
55	23720	20933	21626
65	19420	17553	18218
75	12963	14389	14927
85	7263	12310	12240

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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	2004.679	2004.679	2004.679	2004.679	2004.679
5	2026.687	1997.024	1997.981	1993.196	1973.102
10	1993.196	1968.317	1973.102	1970.231	1952.050
15	1934.826	1916.645	1930.042	1935.783	1916.645
20	1846.792	1842.008	1864.973	1874.542	1863.060
25	1743.449	1750.147	1782.681	1804.689	1796.077
30	1624.795	1634.364	1689.863	1723.354	1721.440
35	1480.305	1497.529	1577.907	1624.795	1631.493
40	1326.246	1338.685	1440.115	1510.925	1527.192
45	1144.437	1176.014	1292.755	1386.530	1409.495
50	955.930	1006.645	1149.222	1251.609	1280.315
55	775.079	841.104	1001.861	1109.032	1150.179
60	623.891	685.131	860.242	967.413	1010.473
65	479.401	546.383	728.191	825.794	863.112
70	335.867	425.815	602.839	688.002	724.364
75	206.688	321.514	487.056	567.434	599.011
80	114.826	221.998	388.496	463.133	483.228
85	48.801	153.102	310.031	374.143	387.539
90	6.698	105.258	240.179	296.635	314.816
95	0.957	71.767	192.334	235.394	254.532
100	0.000	46.887	149.274	192.334	207.645
105	0.000	33.491	115.783	156.930	169.369
110	0.000	22.965	88.991	128.223	138.749
115	0.000	19.138	72.723	107.171	114.826
120	0.000	14.353	55.499	88.034	95.689
125	0.000	8.612	41.146	69.853	78.465
130	0.000	5.741	29.664	54.543	62.198
135	0.000	2.871	22.008	43.060	48.801
140	0.000	2.871	15.310	33.491	38.275
145	0.000	0.000	9.569	21.052	26.793
150	0.000	0.000	6.698	15.310	19.138
155	0.000	0.000	4.784	7.655	12.440
160	0.000	0.000	1.914	5.741	6.698
165	0.000	0.000	0.000	1.914	2.871
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	733.06	N.A.	11.70
0-30	1551.88	N.A.	24.80
0-40	2529.00	N.A.	40.40
0-60	4396.5	N.A.	70.20
0-80	5558.87	N.A.	88.80
0-90	5851.02	N.A.	93.50
10-90	5661.23	N.A.	90.50
20-40	1795.94	N.A.	28.70
20-50	2786.00	N.A.	44.50
40-70	2556.00	N.A.	40.80
60-80	1162.37	N.A.	18.60
70-80	473.87	N.A.	7.60
80-90	292.15	N.A.	4.70
90-110	278.80	N.A.	4.50
90-120	342.71	N.A.	5.50
90-130	378.99	N.A.	6.10
90-150	404.90	N.A.	6.50
90-180	407.61	N.A.	6.50
110-180	128.82	N.A.	2.10
0-180	6258.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	189.79
10-20	543.27
20-30	818.83
30-40	977.12
40-50	990.06
50-60	877.44
60-70	688.50
70-80	473.87
80-90	292.15
90-100	173.94
100-110	104.85
110-120	63.92
120-130	36.28
130-140	18.33
140-150	7.57
150-160	2.37
160-170	0.35
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	189	189	189	189	184	184	184	184	173	173	173	164	164	164	155	155	155	151
1	171	162	155	148	165	158	151	144	149	143	138	141	136	132	133	130	126	122
2	155	141	129	120	150	137	126	117	129	121	113	123	115	109	116	110	105	101
3	141	123	110	99	136	120	108	97	114	103	94	108	99	91	102	95	89	84
4	129	109	95	84	125	106	93	83	101	89	80	96	86	78	91	83	76	72
5	119	98	83	72	115	95	81	71	91	79	69	86	76	68	82	73	66	62
6	110	88	73	63	106	86	72	62	82	70	61	78	68	59	75	65	58	55
7	102	80	65	55	98	78	64	55	74	62	54	71	61	53	68	59	52	48
8	95	73	59	49	91	71	58	49	68	56	48	65	55	47	63	53	46	43
9	88	67	53	44	86	65	53	44	63	51	43	60	50	43	58	49	42	39
10	83	62	49	40	80	60	48	40	58	47	39	56	46	39	54	45	38	35

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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	18.4	19.9	18.9	20.4	20.9	UGR Viewed Endwise			
	3H	19.6	21.0	20.1	21.5	22.0	21.8	23.3	22.3	23.8
	4H	20.0	21.3	20.5	21.7	22.3	24.0	25.4	24.5	25.8
	6H	20.2	21.3	20.7	21.8	22.4	25.0	26.3	25.5	26.8
	8H	20.2	21.3	20.7	21.8	22.4	26.1	27.2	26.6	27.7
	12H	20.2	21.3	20.7	21.8	22.4	26.6	27.7	27.1	28.2
							27.1	28.2	27.7	28.7

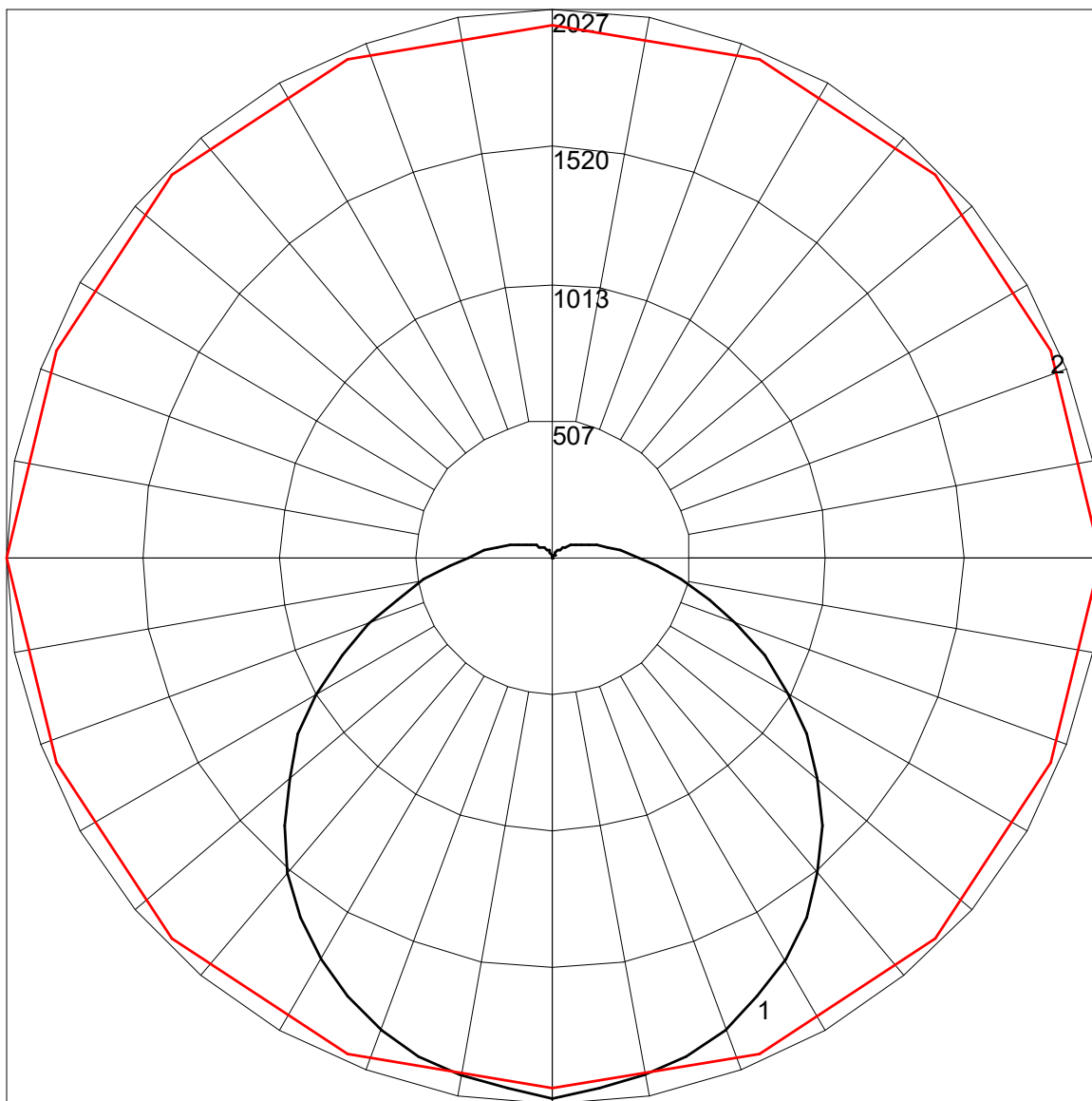
4H	2H	19.5	20.8	20.0	21.3	21.8	22.1	23.4	22.6	23.9
	3H	20.9	22.0	21.5	22.6	23.1	24.5	25.6	25.1	26.2
	4H	21.4	22.4	21.9	22.9	23.5	25.7	26.7	26.3	27.3
	6H	21.7	22.6	22.2	23.1	23.7	26.9	27.8	27.5	28.4
	8H	21.8	22.6	22.3	23.1	23.8	27.6	28.4	28.1	28.9
	12H	21.8	22.5	22.4	23.1	23.7	28.2	29.0	28.8	29.6

8H	4H	22.2	23.0	22.7	23.6	24.2	25.9	26.7	26.5	27.3
	6H	22.6	23.3	23.2	23.9	24.6	27.2	27.9	27.8	28.5
	8H	22.8	23.4	23.4	24.0	24.7	28.0	28.6	28.6	29.2
	12H	22.9	23.4	23.5	24.0	24.7	28.8	29.4	29.4	30.0

12H	4H	22.4	23.1	23.0	23.7	24.3	25.9	26.6	26.5	27.2
	6H	23.0	23.6	23.6	24.2	24.9	27.3	27.9	27.9	28.5
	8H	23.2	23.8	23.8	24.4	25.1	28.1	28.6	28.7	29.2

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 2026.687 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)