



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-835-(L25)-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] 07/31/2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L30-835-(L25)-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K 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	2490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	16.3
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)	3.72 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	8708	7363	7349
55	7186	6301	6470
65	5919	5292	5451
75	3999	4349	4466
85	2347	3735	3662

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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	797.516	797.516	797.516	797.516	797.516
5	806.271	794.470	794.851	792.947	784.953
10	792.947	783.050	784.953	783.811	776.578
15	769.726	762.493	767.823	770.107	762.493
20	734.704	732.801	741.937	745.744	741.176
25	693.591	696.256	709.199	717.954	714.528
30	646.387	650.194	672.273	685.597	684.836
35	588.905	595.757	627.734	646.387	649.052
40	527.617	532.565	572.917	601.087	607.558
45	455.288	467.850	514.293	551.599	560.735
50	380.295	400.471	457.192	497.924	509.344
55	308.347	334.614	398.567	441.203	457.572
60	248.201	272.564	342.227	384.863	401.994
65	190.719	217.366	289.694	328.523	343.369
70	133.617	169.401	239.826	273.706	288.172
75	82.226	127.907	193.764	225.741	238.303
80	45.681	88.317	154.554	184.247	192.241
85	19.414	60.908	123.339	148.844	154.174
90	2.665	41.874	95.550	118.009	125.242
95	0.381	28.551	76.516	93.646	101.260
100	0.000	18.653	59.385	76.516	82.607
105	0.000	13.324	46.062	62.431	67.380
110	0.000	9.136	35.403	51.011	55.198
115	0.000	7.614	28.931	42.636	45.681
120	0.000	5.710	22.079	35.022	38.068
125	0.000	3.426	16.369	27.789	31.215
130	0.000	2.284	11.801	21.699	24.744
135	0.000	1.142	8.756	17.130	19.414
140	0.000	1.142	6.091	13.324	15.227
145	0.000	0.000	3.807	8.375	10.659
150	0.000	0.000	2.665	6.091	7.614
155	0.000	0.000	1.903	3.045	4.949
160	0.000	0.000	0.761	2.284	2.665
165	0.000	0.000	0.000	0.761	1.142
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	291.63	N.A.	11.70
0-30	617.38	N.A.	24.80
0-40	1006.1	N.A.	40.40
0-60	1749.05	N.A.	70.20
0-80	2211.47	N.A.	88.80
0-90	2327.69	N.A.	93.50
10-90	2252.19	N.A.	90.50
20-40	714.47	N.A.	28.70
20-50	1108.35	N.A.	44.50
40-70	1016.85	N.A.	40.80
60-80	462.42	N.A.	18.60
70-80	188.52	N.A.	7.60
80-90	116.22	N.A.	4.70
90-110	110.91	N.A.	4.50
90-120	136.34	N.A.	5.50
90-130	150.77	N.A.	6.10
90-150	161.08	N.A.	6.50
90-180	162.16	N.A.	6.50
110-180	51.25	N.A.	2.10
0-180	2489.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.50
10-20	216.13
20-30	325.75
30-40	388.72
40-50	393.87
50-60	349.07
60-70	273.90
70-80	188.52
80-90	116.22
90-100	69.20
100-110	41.71
110-120	25.43
120-130	14.43
130-140	7.29
140-150	3.01
150-160	0.94
160-170	0.14
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	60	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

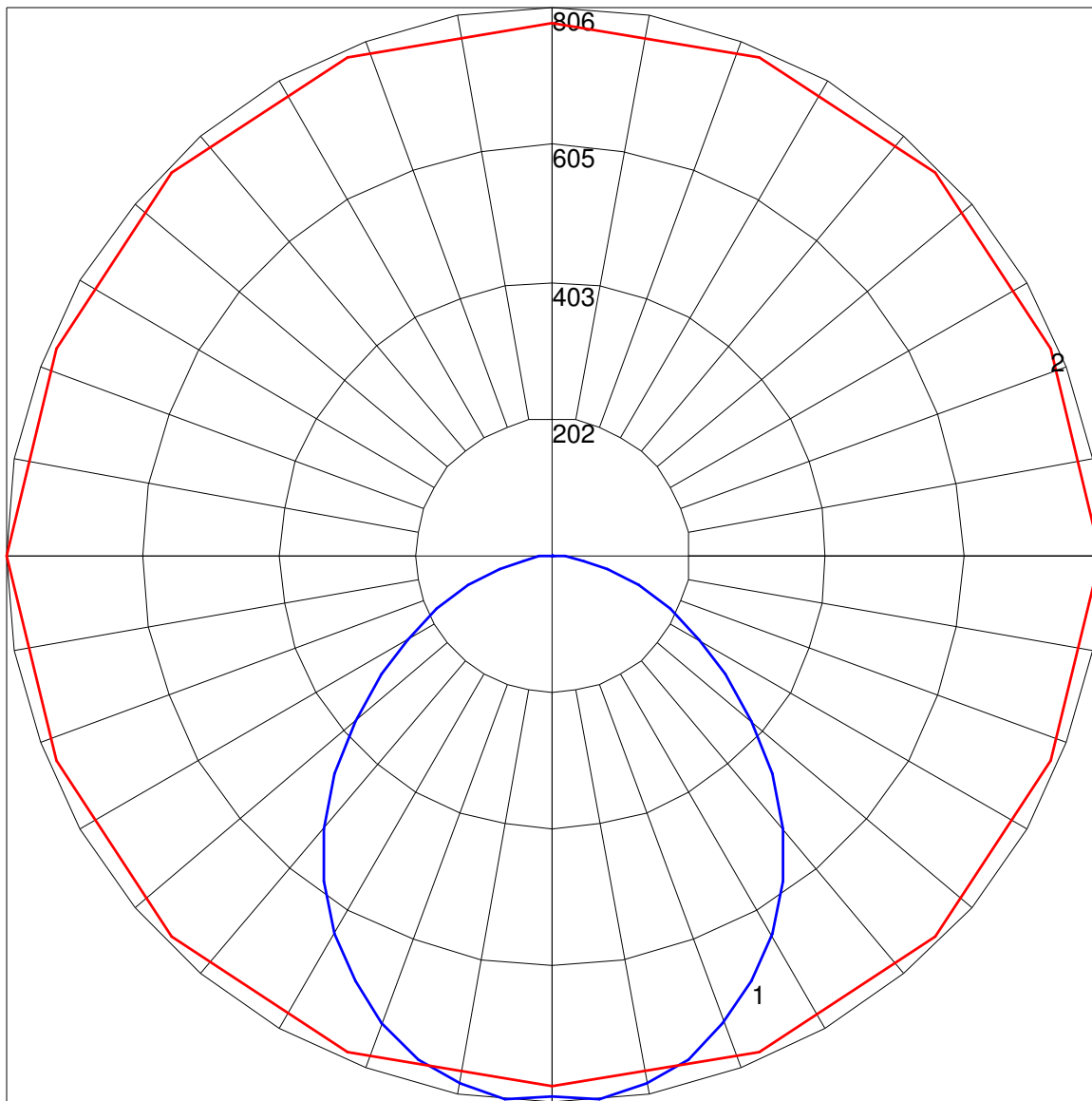
Reflectances

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	16.0	17.5	16.4	17.9	18.4	19.4	20.9	19.8	21.3	21.8
	3H	17.2	18.5	17.6	19.0	19.5	21.6	22.9	22.0	23.4	23.9
	4H	17.5	18.8	18.0	19.3	19.8	22.6	23.9	23.1	24.4	24.9
	6H	17.7	18.9	18.2	19.4	19.9	23.6	24.8	24.2	25.3	25.9
	8H	17.7	18.8	18.2	19.4	19.9	24.2	25.3	24.7	25.8	26.4
	12H	17.7	18.8	18.2	19.3	19.9	24.7	25.8	25.3	26.3	26.9
4H	2H	17.0	18.3	17.5	18.8	19.3	19.7	21.0	20.2	21.5	22.0
	3H	18.5	19.6	19.0	20.1	20.6	22.1	23.2	22.6	23.7	24.3
	4H	18.9	19.9	19.5	20.5	21.1	23.3	24.3	23.8	24.8	25.4
	6H	19.2	20.1	19.8	20.6	21.3	24.5	25.4	25.1	26.0	26.6
	8H	19.3	20.1	19.8	20.7	21.3	25.1	26.0	25.7	26.5	27.1
	12H	19.3	20.0	19.9	20.6	21.3	25.8	26.6	26.4	27.2	27.8
8H	4H	19.7	20.5	20.3	21.1	21.7	23.5	24.3	24.0	24.8	25.5
	6H	20.2	20.9	20.8	21.5	22.1	24.8	25.5	25.4	26.1	26.7
	8H	20.3	20.9	20.9	21.6	22.2	25.6	26.2	26.2	26.8	27.5
	12H	20.4	21.0	21.0	21.6	22.3	26.4	27.0	27.0	27.6	28.3
12H	4H	19.9	20.6	20.5	21.2	21.9	23.4	24.2	24.0	24.8	25.4
	6H	20.5	21.1	21.1	21.7	22.4	24.9	25.5	25.5	26.1	26.8
	8H	20.7	21.3	21.3	21.9	22.6	25.6	26.2	26.3	26.8	27.5

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 806.271 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.)