



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-3-L40-840-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] 04-28-2023
[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-L40-840-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	4001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	28.2
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	18442	15659	15705
55	15165	13383	13826
65	12416	11222	11647
75	8288	9199	9544
85	4644	7870	7826

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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	1281.646	1281.646	1281.646	1281.646	1281.646
5	1295.717	1276.752	1277.364	1274.305	1261.458
10	1274.305	1258.399	1261.458	1259.623	1247.999
15	1236.987	1225.364	1233.929	1237.599	1225.364
20	1180.705	1177.646	1192.329	1198.446	1191.105
25	1114.635	1118.917	1139.717	1153.787	1148.282
30	1038.776	1044.893	1080.376	1101.788	1100.564
35	946.399	957.411	1008.799	1038.776	1043.058
40	847.905	855.858	920.705	965.976	976.376
45	731.670	751.858	826.494	886.446	901.129
50	611.153	643.576	734.729	800.188	818.541
55	495.529	537.741	640.517	709.035	735.341
60	398.870	438.023	549.976	618.494	646.023
65	306.494	349.317	465.553	527.953	551.811
70	214.729	272.235	385.412	439.859	463.106
75	132.141	205.553	311.388	362.776	382.964
80	73.412	141.929	248.376	296.094	308.941
85	31.200	97.882	198.212	239.200	247.765
90	4.282	67.294	153.553	189.647	201.270
95	0.612	45.882	122.965	150.494	162.729
100	0.000	29.976	95.435	122.965	132.753
105	0.000	21.412	74.023	100.329	108.282
110	0.000	14.682	56.894	81.976	88.706
115	0.000	12.235	46.494	68.518	73.412
120	0.000	9.176	35.482	56.282	61.176
125	0.000	5.506	26.306	44.659	50.165
130	0.000	3.671	18.965	34.871	39.765
135	0.000	1.835	14.071	27.529	31.200
140	0.000	1.835	9.788	21.412	24.471
145	0.000	0.000	6.118	13.459	17.129
150	0.000	0.000	4.282	9.788	12.235
155	0.000	0.000	3.059	4.894	7.953
160	0.000	0.000	1.224	3.671	4.282
165	0.000	0.000	0.000	1.224	1.835
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	468.66	N.A.	11.70
0-30	992.16	N.A.	24.80
0-40	1616.86	N.A.	40.40
0-60	2810.8	N.A.	70.20
0-80	3553.94	N.A.	88.80
0-90	3740.72	N.A.	93.50
10-90	3619.38	N.A.	90.50
20-40	1148.2	N.A.	28.70
20-50	1781.17	N.A.	44.50
40-70	1634.12	N.A.	40.80
60-80	743.14	N.A.	18.60
70-80	302.96	N.A.	7.60
80-90	186.78	N.A.	4.70
90-110	178.24	N.A.	4.50
90-120	219.11	N.A.	5.50
90-130	242.30	N.A.	6.10
90-150	258.86	N.A.	6.50
90-180	260.60	N.A.	6.50
110-180	82.36	N.A.	2.10
0-180	4001.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.34
10-20	347.33
20-30	523.50
30-40	624.70
40-50	632.97
50-60	560.97
60-70	440.18
70-80	302.96
80-90	186.78
90-100	111.21
100-110	67.03
110-120	40.86
120-130	23.20
130-140	11.72
140-150	4.84
150-160	1.51
160-170	0.22
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	108	108	108	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	49	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	18.5	20.0	19.0	20.5	21.0	21.9	23.4	22.4	23.9	24.3
	3H	19.7	21.1	20.2	21.6	22.1	24.1	25.5	24.6	25.9	26.5
	4H	20.1	21.4	20.6	21.8	22.4	25.1	26.4	25.6	26.9	27.4
	6H	20.3	21.4	20.8	21.9	22.5	26.2	27.3	26.7	27.8	28.4
	8H	20.3	21.4	20.8	21.9	22.5	26.7	27.8	27.2	28.3	28.9
	12H	20.3	21.4	20.8	21.9	22.5	27.2	28.3	27.8	28.8	29.4

UGR Viewed Endwise

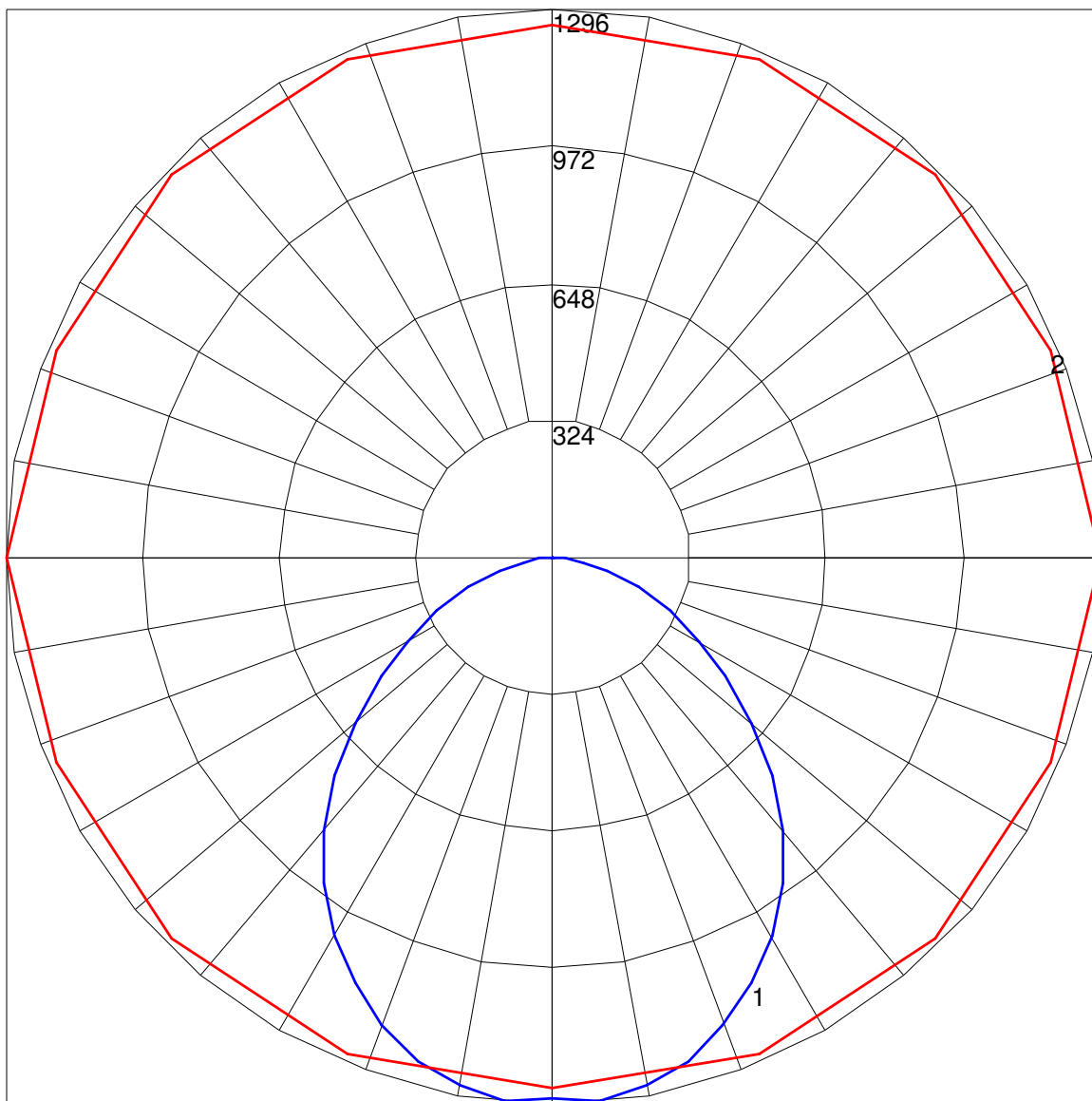
4H	2H	19.6	20.9	20.1	21.4	21.9	22.2	23.5	22.7	24.0	24.5
	3H	21.0	22.1	21.6	22.7	23.2	24.6	25.7	25.2	26.3	26.8
	4H	21.5	22.5	22.0	23.0	23.6	25.8	26.8	26.4	27.4	28.0
	6H	21.8	22.7	22.3	23.2	23.8	27.0	27.9	27.6	28.5	29.1
	8H	21.9	22.7	22.4	23.2	23.9	27.7	28.5	28.2	29.0	29.7
	12H	21.9	22.6	22.5	23.2	23.8	28.3	29.1	28.9	29.7	30.3

8H	4H	22.3	23.1	22.8	23.7	24.3	26.0	26.8	26.6	27.4	28.0
	6H	22.7	23.4	23.3	24.0	24.7	27.3	28.0	27.9	28.6	29.3
	8H	22.9	23.5	23.5	24.1	24.8	28.1	28.7	28.7	29.3	30.0
	12H	23.0	23.5	23.6	24.1	24.8	28.9	29.5	29.5	30.1	30.8

12H	4H	22.5	23.2	23.1	23.8	24.4	26.0	26.7	26.6	27.3	27.9
	6H	23.1	23.7	23.7	24.3	25.0	27.4	28.0	28.0	28.6	29.3
	8H	23.3	23.9	23.9	24.5	25.2	28.2	28.7	28.8	29.3	30.0

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 1295.717 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.)