

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L52-RGB835-DMX-UNV WHITE ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 30 Nov, 2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L52-RGB835-DMX-UNV white only

[SEARCH_SOURCE TYPE] 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	4944
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	44.6
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	17290	14620	14594
55	14270	12511	12848
65	11753	10509	10823
75	7941	8635	8868
85	4660	7417	7272

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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	1583.611	1583.611	1583.611	1583.611	1583.611
5	1600.996	1577.563	1578.319	1574.540	1558.666
10	1574.540	1554.886	1558.666	1556.398	1542.036
15	1528.430	1514.068	1524.650	1529.186	1514.068
20	1458.887	1455.108	1473.249	1480.808	1471.737
25	1377.250	1382.541	1408.242	1425.627	1418.824
30	1283.518	1291.077	1334.919	1361.376	1359.864
35	1169.377	1182.984	1246.479	1283.518	1288.810
40	1047.677	1057.504	1137.630	1193.566	1206.416
45	904.056	929.001	1021.221	1095.299	1113.441
50	755.144	795.207	907.836	988.717	1011.394
55	612.279	664.436	791.427	876.088	908.592
60	492.847	541.224	679.554	764.215	798.230
65	378.706	431.619	575.240	652.342	681.822
70	265.321	336.376	476.217	543.492	572.216
75	163.274	253.982	384.753	448.249	473.193
80	90.708	175.369	306.895	365.856	381.730
85	38.551	120.944	244.912	295.557	306.140
90	5.291	83.149	189.731	234.329	248.691
95	0.756	56.693	151.936	185.951	201.069
100	0.000	37.039	117.920	151.936	164.030
105	0.000	26.457	91.464	123.968	133.794
110	0.000	18.142	70.299	101.291	109.606
115	0.000	15.118	57.448	84.661	90.708
120	0.000	11.339	43.842	69.543	75.590
125	0.000	6.803	32.504	55.181	61.984
130	0.000	4.535	23.433	43.086	49.134
135	0.000	2.268	17.386	34.016	38.551
140	0.000	2.268	12.094	26.457	30.236
145	0.000	0.000	7.559	16.630	21.165
150	0.000	0.000	5.291	12.094	15.118
155	0.000	0.000	3.780	6.047	9.827
160	0.000	0.000	1.512	4.535	5.291
165	0.000	0.000	0.000	1.512	2.268
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	579.08	N.A.	11.70
0-30	1225.92	N.A.	24.80
0-40	1997.8	N.A.	40.40
0-60	3473.05	N.A.	70.20
0-80	4391.27	N.A.	88.80
0-90	4622.05	N.A.	93.50
10-90	4472.13	N.A.	90.50
20-40	1418.72	N.A.	28.70
20-50	2200.82	N.A.	44.50
40-70	2019.13	N.A.	40.80
60-80	918.22	N.A.	18.60
70-80	374.34	N.A.	7.60
80-90	230.78	N.A.	4.70
90-110	220.24	N.A.	4.50
90-120	270.73	N.A.	5.50
90-130	299.39	N.A.	6.10
90-150	319.85	N.A.	6.50
90-180	322.00	N.A.	6.50
110-180	101.76	N.A.	2.10
0-180	4944.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.93
10-20	429.16
20-30	646.84
30-40	771.88
40-50	782.10
50-60	693.14
60-70	543.89
70-80	374.34
80-90	230.78
90-100	137.41
100-110	82.83
110-120	50.49
120-130	28.66
130-140	14.48
140-150	5.98
150-160	1.87
160-170	0.27
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	170	170	170	170	165	165	165	165	155	155	155	147	147	147	139	139	139	135
1	153	145	139	132	148	141	135	129	133	128	124	126	122	118	119	116	113	109
2	139	126	116	107	134	123	113	105	116	108	101	110	103	97	104	99	94	90
3	126	111	98	89	122	108	96	87	102	92	85	97	89	82	92	85	79	76
4	116	98	85	75	112	95	83	74	91	80	72	86	77	70	82	74	68	65
5	106	87	74	65	103	85	73	64	81	70	62	77	68	61	74	66	59	56
6	98	79	66	56	95	77	65	56	73	62	54	70	60	53	67	59	52	49
7	91	71	59	50	88	70	58	49	67	56	48	64	54	47	61	53	46	43
8	85	65	53	44	82	64	52	44	61	51	43	58	49	42	56	48	41	39
9	79	60	48	40	77	59	47	39	56	46	39	54	45	38	52	44	37	35
10	74	55	44	36	72	54	43	36	52	42	35	50	41	35	48	40	34	31

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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

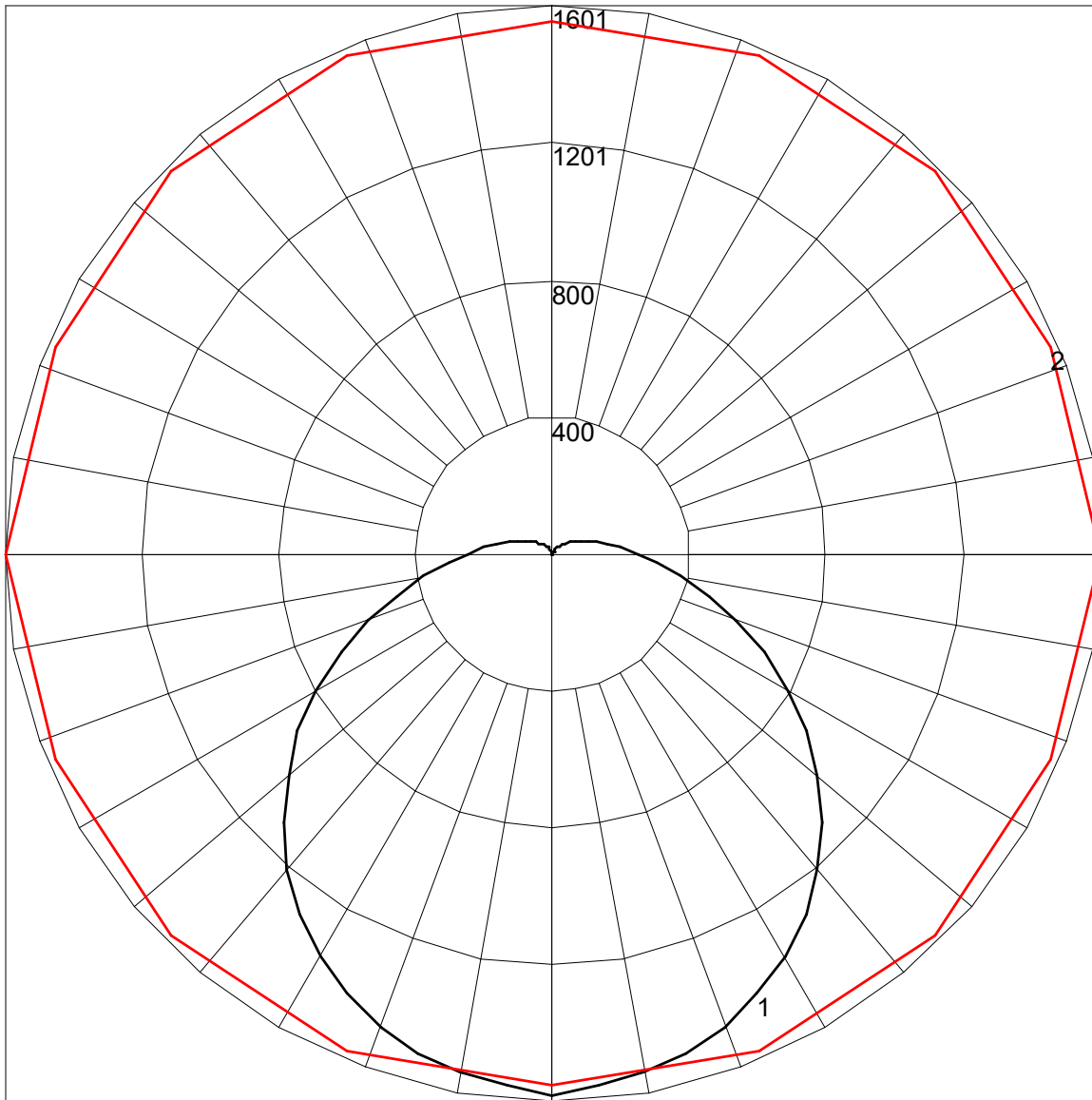
X=2H	Y=2H	17.1	18.6	17.5	19.0	19.5	20.5	22.0	20.9	22.4	22.9
	3H	18.3	19.6	18.7	20.1	20.6	22.7	24.0	23.1	24.5	25.0
	4H	18.6	19.9	19.1	20.4	20.9	23.7	25.0	24.2	25.5	26.0
	6H	18.8	20.0	19.3	20.5	21.0	24.7	25.9	25.3	26.4	27.0
	8H	18.8	19.9	19.3	20.5	21.0	25.3	26.4	25.8	26.9	27.5
	12H	18.8	19.9	19.3	20.4	21.0	25.8	26.9	26.4	27.4	28.0

UGR Viewed Endwise

4H	2H	18.1	19.4	18.6	19.9	20.4	20.8	22.1	21.3	22.6	23.1
	3H	19.6	20.7	20.1	21.2	21.7	23.2	24.3	23.7	24.8	25.4
	4H	20.0	21.0	20.6	21.6	22.2	24.4	25.4	24.9	25.9	26.5
	6H	20.3	21.2	20.9	21.7	22.4	25.6	26.5	26.2	27.1	27.7
	8H	20.4	21.2	20.9	21.8	22.4	26.2	27.1	26.8	27.6	28.2
	12H	20.4	21.1	21.0	21.7	22.4	26.9	27.7	27.5	28.3	28.9
8H	4H	20.8	21.6	21.4	22.2	22.8	24.6	25.4	25.1	25.9	26.6
	6H	21.3	22.0	21.9	22.6	23.2	25.9	26.6	26.5	27.2	27.8
	8H	21.4	22.0	22.0	22.7	23.3	26.7	27.3	27.3	27.9	28.6
	12H	21.5	22.1	22.1	22.7	23.4	27.5	28.1	28.1	28.7	29.4
12H	4H	21.0	21.7	21.6	22.3	23.0	24.5	25.3	25.1	25.9	26.5
	6H	21.6	22.2	22.2	22.8	23.5	26.0	26.6	26.6	27.2	27.9
	8H	21.8	22.4	22.4	23.0	23.7	26.7	27.3	27.4	27.9	28.6

Maximum UGR = 29.4

POLAR GRAPH



Maximum Candela = 1600.996 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.)