

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L60-940-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

[ISSUE DATE] 6-7-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4-56 LED 22"ARRAYS 8'SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-8-L60-940-DIM-UNV

[LAMPCAT] HLM 90 CRI 4000K 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	5110
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	36.09
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	9059	7610	7542
55	7519	6526	6640
65	6251	5496	5594
75	4308	4533	4583
85	2740	3917	3758

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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	1636.669	1636.669	1636.669	1636.669	1636.669
5	1654.637	1630.419	1631.200	1627.294	1610.888
10	1627.294	1606.982	1610.888	1608.545	1593.701
15	1579.639	1564.796	1575.733	1580.420	1564.796
20	1507.766	1503.860	1522.610	1530.422	1521.047
25	1423.394	1428.863	1455.424	1473.392	1466.361
30	1326.522	1334.334	1379.645	1406.988	1405.426
35	1208.557	1222.619	1288.242	1326.522	1331.990
40	1082.779	1092.935	1175.745	1233.556	1246.837
45	934.346	960.127	1055.436	1131.997	1150.746
50	780.445	821.850	938.253	1021.844	1045.281
55	632.793	686.698	817.944	905.441	939.034
60	509.359	559.358	702.322	789.820	824.975
65	391.394	446.080	594.513	674.198	704.666
70	274.210	347.646	492.172	561.702	591.388
75	168.745	262.492	397.644	463.267	489.048
80	93.747	181.244	317.178	378.113	394.519
85	39.843	124.996	253.117	305.459	316.397
90	5.469	85.935	196.088	242.180	257.023
95	0.781	58.592	157.026	192.182	207.806
100	0.000	38.280	121.871	157.026	169.526
105	0.000	27.343	94.528	128.121	138.277
110	0.000	18.749	72.654	104.684	113.278
115	0.000	15.625	59.373	87.497	93.747
120	0.000	11.718	45.311	71.873	78.123
125	0.000	7.031	33.593	57.030	64.061
130	0.000	4.687	24.218	44.530	50.780
135	0.000	2.344	17.968	35.155	39.843
140	0.000	2.344	12.500	27.343	31.249
145	0.000	0.000	7.812	17.187	21.874
150	0.000	0.000	5.469	12.500	15.625
155	0.000	0.000	3.906	6.250	10.156
160	0.000	0.000	1.562	4.687	5.469
165	0.000	0.000	0.000	1.562	2.344
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	598.49	N.A.	11.70
0-30	1267.00	N.A.	24.80
0-40	2064.74	N.A.	40.40
0-60	3589.41	N.A.	70.20
0-80	4538.4	N.A.	88.80
0-90	4776.91	N.A.	93.50
10-90	4621.96	N.A.	90.50
20-40	1466.25	N.A.	28.70
20-50	2274.56	N.A.	44.50
40-70	2086.78	N.A.	40.80
60-80	948.99	N.A.	18.60
70-80	386.88	N.A.	7.60
80-90	238.51	N.A.	4.70
90-110	227.61	N.A.	4.50
90-120	279.80	N.A.	5.50
90-130	309.42	N.A.	6.10
90-150	330.57	N.A.	6.50
90-180	332.78	N.A.	6.50
110-180	105.17	N.A.	2.10
0-180	5109.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.95
10-20	443.54
20-30	668.51
30-40	797.74
40-50	808.31
50-60	716.36
60-70	562.11
70-80	386.88
80-90	238.51
90-100	142.01
100-110	85.60
110-120	52.18
120-130	29.62
130-140	14.97
140-150	6.18
150-160	1.93
160-170	0.28
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

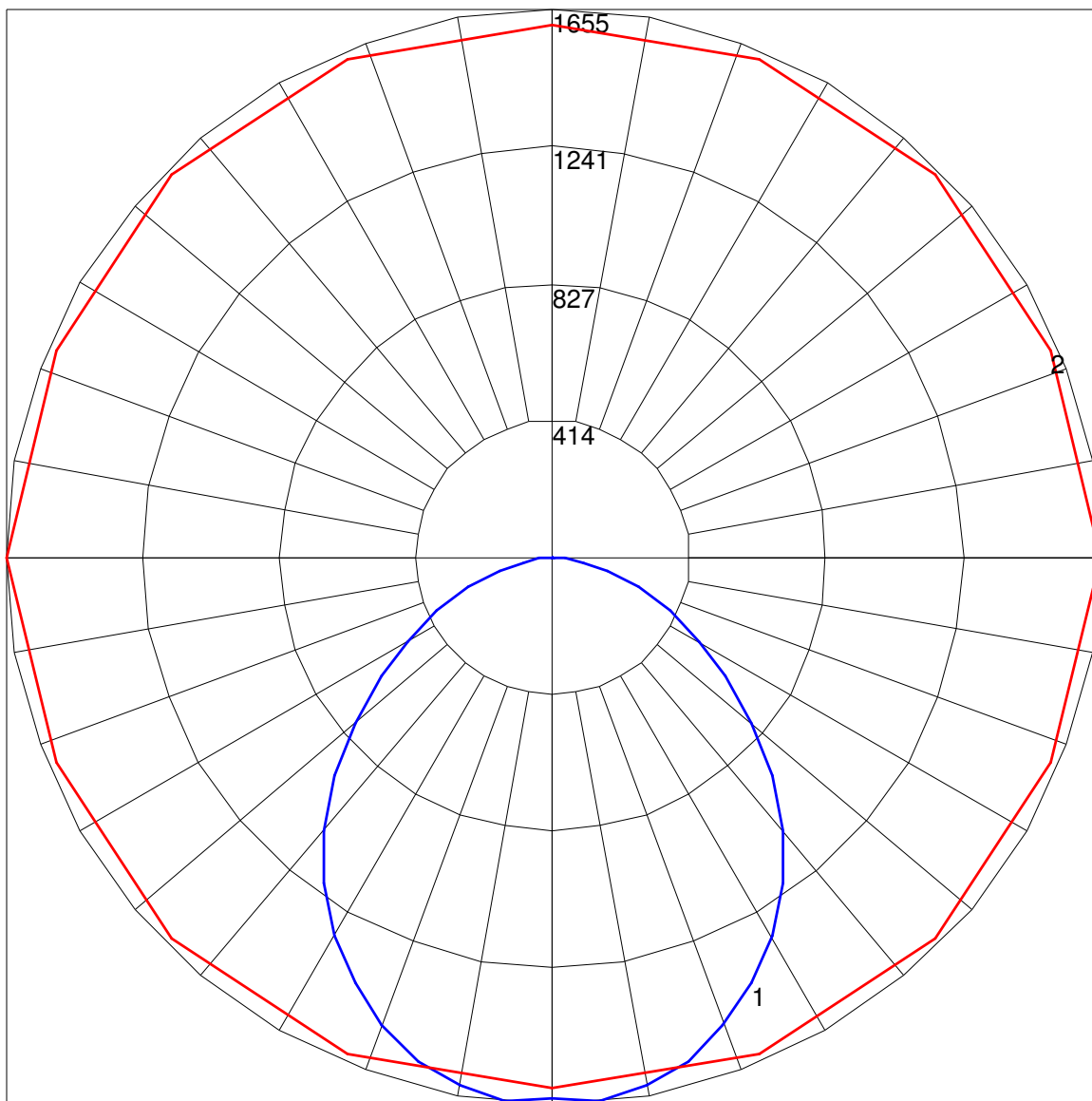
Reflectances

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	16.1	17.6	16.5	18.0	18.5	19.5	21.0	20.0	21.5	21.9
	3H	17.3	18.6	17.7	19.1	19.6	21.7	23.1	22.2	23.6	24.1
	4H	17.6	18.9	18.1	19.4	19.9	22.8	24.1	23.3	24.5	25.1
	6H	17.8	19.0	18.3	19.5	20.0	23.8	25.0	24.4	25.5	26.1
	8H	17.8	18.9	18.3	19.5	20.0	24.4	25.5	24.9	26.0	26.6
	12H	17.8	18.9	18.4	19.4	20.0	25.0	26.1	25.5	26.6	27.2
4H	2H	17.1	18.4	17.7	18.9	19.5	19.8	21.1	20.3	21.6	22.1
	3H	18.6	19.7	19.1	20.2	20.8	22.3	23.4	22.8	23.9	24.4
	4H	19.0	20.0	19.6	20.6	21.2	23.5	24.5	24.0	25.0	25.6
	6H	19.3	20.2	19.9	20.8	21.4	24.7	25.6	25.3	26.2	26.8
	8H	19.4	20.2	20.0	20.8	21.4	25.4	26.2	25.9	26.7	27.4
	12H	19.4	20.2	20.0	20.8	21.4	26.1	26.8	26.7	27.4	28.0
8H	4H	19.8	20.6	20.4	21.2	21.8	23.6	24.4	24.2	25.0	25.6
	6H	20.3	21.0	20.9	21.6	22.2	25.0	25.7	25.6	26.3	26.9
	8H	20.4	21.1	21.1	21.7	22.3	25.8	26.4	26.4	27.0	27.7
	12H	20.5	21.1	21.1	21.7	22.4	26.7	27.2	27.3	27.8	28.5
12H	4H	20.0	20.8	20.6	21.4	22.0	23.6	24.4	24.2	25.0	25.6
	6H	20.6	21.2	21.2	21.8	22.5	25.1	25.7	25.7	26.3	26.9
	8H	20.9	21.4	21.5	22.0	22.7	25.9	26.4	26.5	27.0	27.7

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 1654.637 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.)