

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L65-830-DRV-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] 09-08-2023

[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-L65-830-DRV-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	6571
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	45.74
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	22979	19429	19395
55	18965	16628	17074
65	15619	13966	14384
75	10554	11476	11786
85	6193	9857	9664

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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	2104.608	2104.608	2104.608	2104.608	2104.608
5	2127.713	2096.571	2097.576	2092.553	2071.456
10	2092.553	2066.433	2071.456	2068.443	2049.355
15	2031.273	2012.186	2026.250	2032.277	2012.186
20	1938.851	1933.828	1957.938	1967.984	1955.929
25	1830.356	1837.388	1871.544	1894.649	1885.608
30	1705.787	1715.833	1774.099	1809.259	1807.250
35	1554.095	1572.177	1656.562	1705.787	1712.819
40	1392.356	1405.416	1511.902	1586.241	1603.319
45	1201.485	1234.636	1357.196	1455.645	1479.755
50	1003.581	1056.824	1206.508	1313.998	1344.136
55	813.715	883.031	1051.802	1164.315	1207.512
60	654.990	719.284	903.123	1015.636	1060.843
65	503.298	573.619	764.490	866.958	906.137
70	352.610	447.041	632.889	722.297	760.472
75	216.991	337.541	511.334	595.719	628.871
80	120.550	233.064	407.862	486.220	507.316
85	51.234	160.734	325.486	392.793	406.857
90	7.032	110.504	252.151	311.422	330.509
95	1.005	75.344	201.922	247.128	267.220
100	0.000	49.225	156.715	201.922	217.995
105	0.000	35.161	121.555	164.752	177.812
110	0.000	24.110	93.426	134.615	145.665
115	0.000	20.092	76.349	112.514	120.550
120	0.000	15.069	58.266	92.422	100.459
125	0.000	9.041	43.197	73.335	82.376
130	0.000	6.028	31.142	57.261	65.298
135	0.000	3.014	23.105	45.206	51.234
140	0.000	3.014	16.073	35.161	40.183
145	0.000	0.000	10.046	22.101	28.128
150	0.000	0.000	7.032	16.073	20.092
155	0.000	0.000	5.023	8.037	13.060
160	0.000	0.000	2.009	6.028	7.032
165	0.000	0.000	0.000	2.009	3.014
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	769.60	N.A.	11.70
0-30	1629.24	N.A.	24.80
0-40	2655.07	N.A.	40.40
0-60	4615.65	N.A.	70.20
0-80	5835.97	N.A.	88.80
0-90	6142.68	N.A.	93.50
10-90	5943.43	N.A.	90.50
20-40	1885.47	N.A.	28.70
20-50	2924.88	N.A.	44.50
40-70	2683.41	N.A.	40.80
60-80	1220.31	N.A.	18.60
70-80	497.49	N.A.	7.60
80-90	306.71	N.A.	4.70
90-110	292.69	N.A.	4.50
90-120	359.80	N.A.	5.50
90-130	397.89	N.A.	6.10
90-150	425.08	N.A.	6.50
90-180	427.93	N.A.	6.50
110-180	135.24	N.A.	2.10
0-180	6570.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	199.25
10-20	570.35
20-30	859.64
30-40	1025.82
40-50	1039.41
50-60	921.18
60-70	722.82
70-80	497.49
80-90	306.71
90-100	182.61
100-110	110.08
110-120	67.10
120-130	38.09
130-140	19.25
140-150	7.95
150-160	2.49
160-170	0.36
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

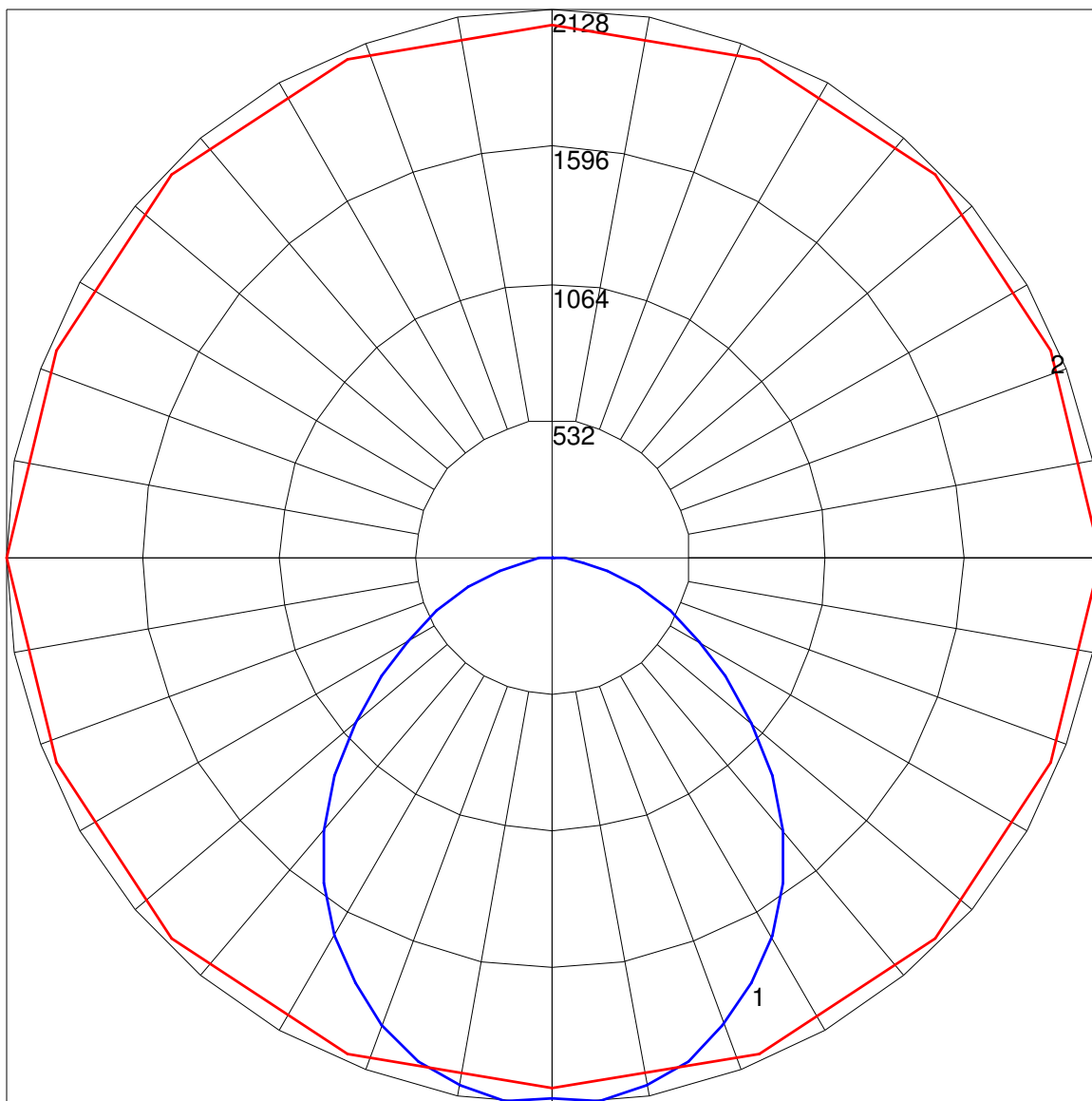
Reflectances

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	19.3	20.8	19.7	21.2	21.7	22.7	24.2	23.1	24.6	25.1
	3H	20.5	21.8	20.9	22.3	22.8	24.9	26.2	25.3	26.7	27.2
	4H	20.8	22.1	21.3	22.6	23.1	25.9	27.2	26.4	27.7	28.2
	6H	21.0	22.2	21.5	22.7	23.2	26.9	28.1	27.5	28.6	29.2
	8H	21.0	22.1	21.5	22.7	23.2	27.5	28.6	28.0	29.1	29.7
	12H	21.0	22.1	21.5	22.6	23.2	28.0	29.1	28.6	29.6	30.2
4H	2H	20.3	21.6	20.8	22.1	22.6	23.0	24.3	23.5	24.8	25.3
	3H	21.8	22.9	22.3	23.4	23.9	25.4	26.5	25.9	27.0	27.6
	4H	22.2	23.2	22.8	23.8	24.4	26.6	27.6	27.1	28.1	28.7
	6H	22.5	23.4	23.1	23.9	24.6	27.8	28.7	28.4	29.3	29.9
	8H	22.6	23.4	23.1	24.0	24.6	28.4	29.3	29.0	29.8	30.4
	12H	22.6	23.3	23.2	23.9	24.6	29.1	29.9	29.7	30.5	31.1
8H	4H	23.0	23.8	23.6	24.4	25.0	26.8	27.6	27.3	28.1	28.8
	6H	23.5	24.2	24.1	24.8	25.4	28.1	28.8	28.7	29.4	30.0
	8H	23.6	24.2	24.2	24.9	25.5	28.9	29.5	29.5	30.1	30.8
	12H	23.7	24.3	24.3	24.9	25.6	29.7	30.3	30.3	30.9	31.6
12H	4H	23.2	23.9	23.8	24.5	25.2	26.7	27.5	27.3	28.1	28.7
	6H	23.8	24.4	24.4	25.0	25.7	28.2	28.8	28.8	29.4	30.1
	8H	24.0	24.6	24.6	25.2	25.9	28.9	29.5	29.6	30.1	30.8

Maximum UGR = 31.6

POLAR GRAPH



Maximum Candela = 2127.713 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.)