



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L43-835-SAF12095-(L40)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 18562.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 10-25-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2x4' LED TROFFER
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] LPT-24-L43-835-SAF12095-(L40)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Commercial, Educational, Office, Direct
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4087
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	27.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2220	2189	2155
55	1757	1663	1595
65	1364	1240	1244
75	1125	1070	1210
85	1279	1297	1558

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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	1869.710	1869.710	1869.710	1869.710	1869.710
5	1842.035	1842.035	1840.159	1840.159	1840.159
10	1806.386	1806.386	1804.509	1804.509	1806.386
15	1743.061	1743.061	1743.061	1744.937	1744.937
20	1678.799	1678.799	1678.799	1680.675	1682.551
25	1573.727	1571.382	1573.727	1577.480	1579.356
30	1436.290	1436.290	1436.290	1440.042	1442.857
35	1308.703	1308.703	1308.703	1308.703	1312.456
40	1148.751	1145.936	1143.122	1138.431	1141.245
45	970.973	964.875	957.370	946.582	942.360
50	792.727	790.851	767.397	748.634	743.006
55	623.393	614.481	590.089	571.795	565.697
60	477.982	465.317	444.209	430.606	430.606
65	356.493	342.890	324.127	322.251	325.065
70	259.864	251.421	234.535	249.076	255.174
75	180.123	179.184	171.210	187.159	193.726
80	127.587	125.711	127.587	139.314	146.819
85	68.953	66.139	69.891	81.618	83.963
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	667.48	N.A.	16.30
0-30	1390.1	N.A.	34.00
0-40	2203.79	N.A.	53.90
0-60	3477.82	N.A.	85.10
0-80	4010.84	N.A.	98.10
0-90	4086.94	N.A.	100.00
10-90	3912.14	N.A.	95.70
20-40	1536.31	N.A.	37.60
20-50	2273.62	N.A.	55.60
40-70	1610.95	N.A.	39.40
60-80	533.02	N.A.	13.00
70-80	196.10	N.A.	4.80
80-90	76.10	N.A.	1.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4086.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	174.80
10-20	492.68
20-30	722.62
30-40	813.69
40-50	737.31
50-60	536.72
60-70	336.92
70-80	196.10
80-90	76.10
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

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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

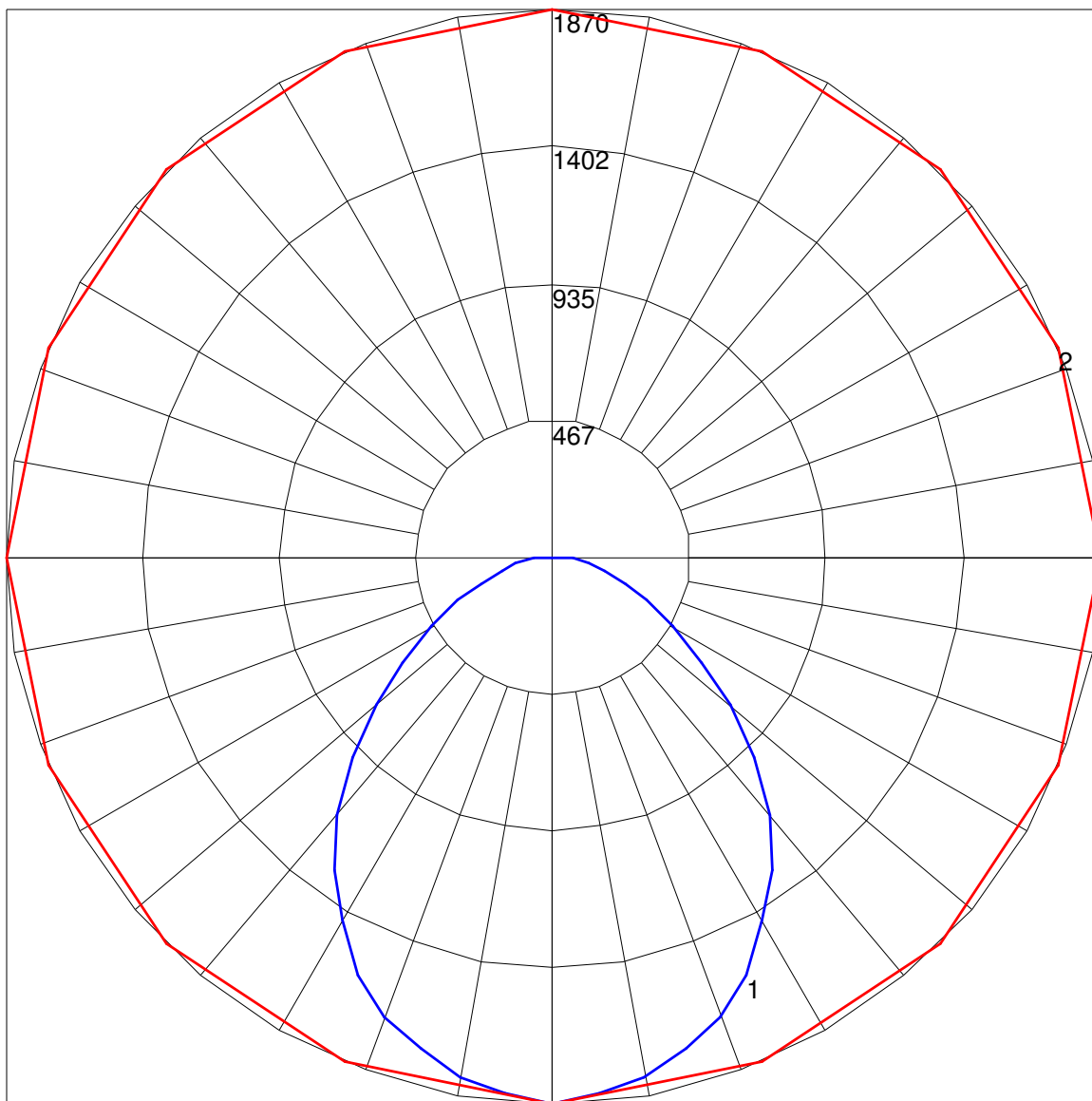
X=2H	Y=2H	13.2	14.8	13.6	15.1	15.4	12.7	14.2	13.1	14.5	14.8
	3H	14.6	16.0	15.0	16.3	16.6	14.1	15.5	14.5	15.8	16.2
	4H	15.1	16.4	15.5	16.7	17.1	14.8	16.1	15.2	16.4	16.8
	6H	15.6	16.8	16.0	17.2	17.6	15.5	16.7	15.9	17.0	17.4
	8H	15.8	16.9	16.2	17.3	17.7	15.8	16.9	16.2	17.3	17.7
	12H	16.0	17.1	16.4	17.5	17.9	16.1	17.1	16.5	17.5	17.9

UGR Viewed Endwise

4H	2H	13.6	14.9	14.0	15.2	15.6	13.1	14.4	13.5	14.8	15.2
	3H	15.2	16.3	15.6	16.7	17.1	14.8	15.9	15.2	16.3	16.7
	4H	15.9	16.8	16.3	17.2	17.7	15.7	16.6	16.1	17.0	17.5
	6H	16.5	17.4	17.0	17.8	18.3	16.5	17.4	17.0	17.8	18.3
	8H	16.8	17.6	17.3	18.0	18.5	16.9	17.7	17.4	18.1	18.6
	12H	17.1	17.8	17.5	18.2	18.7	17.3	18.0	17.7	18.4	18.9
8H	4H	16.1	16.9	16.6	17.3	17.8	15.9	16.7	16.4	17.2	17.6
	6H	16.9	17.6	17.4	18.1	18.6	17.0	17.6	17.5	18.1	18.6
	8H	17.3	17.9	17.8	18.4	18.9	17.5	18.1	18.0	18.6	19.1
	12H	17.7	18.2	18.2	18.7	19.3	18.0	18.5	18.5	19.0	19.5
12H	4H	16.2	16.9	16.6	17.3	17.8	16.0	16.7	16.5	17.2	17.6
	6H	17.0	17.6	17.5	18.1	18.6	17.0	17.6	17.6	18.1	18.6
	8H	17.5	18.0	18.0	18.5	19.1	17.6	18.1	18.1	18.6	19.2

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 1869.71 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)