



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-22-L27-835-SA19156-(L20)-EM10W-BMTD-DIM-UNV_EM MODE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 18632.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 10-27-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC CARTHAGE, MO 64836
 [LUMINAIRE] 2x2' LED TROFFER
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] LPT-22-L27-835-SA19156-(L20)-EM10W-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT
 [SEARCH_SOURCETYPE]LED
 [SEARCH_APPLICATION]INDOOR,OFFICE,CLASSROOM,COMMERCIAL,DIRECT
 [SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1200
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.77 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	1372	1396	1407
55	1095	1083	1060
65	872	813	818
75	718	699	792
85	692	758	824

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	522.258	522.258	522.258	522.258	522.258
5	521.703	521.980	520.037	518.371	518.371
10	511.985	511.985	512.818	510.875	511.985
15	498.380	497.547	498.936	498.658	499.769
20	477.279	476.724	477.279	479.500	482.554
25	450.625	449.792	451.458	453.679	461.175
30	416.474	415.086	416.196	425.081	428.413
35	377.048	378.714	378.714	389.264	389.264
40	331.513	333.734	335.123	343.730	340.953
45	281.259	280.703	286.256	291.532	288.478
50	229.061	227.395	232.670	236.557	231.559
55	182.138	179.361	180.194	182.693	176.307
60	140.768	137.714	134.938	136.048	132.161
65	106.895	101.620	99.676	99.954	100.231
70	77.186	74.965	72.466	74.410	76.076
75	53.864	54.697	52.476	55.252	59.417
80	35.261	35.539	35.817	38.316	43.036
85	17.492	16.104	19.158	21.379	20.824
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	189.83	N.A.	15.80
0-30	397.89	N.A.	33.20
0-40	636.08	N.A.	53.00
0-60	1018.83	N.A.	84.90
0-80	1179.51	N.A.	98.30
0-90	1199.96	N.A.	100.00
10-90	1150.58	N.A.	95.90
20-40	446.25	N.A.	37.20
20-50	666.20	N.A.	55.50
40-70	485.00	N.A.	40.40
60-80	160.68	N.A.	13.40
70-80	58.43	N.A.	4.90
80-90	20.45	N.A.	1.70
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	1199.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.38
10-20	140.45
20-30	208.06
30-40	238.20
40-50	219.95
50-60	162.80
60-70	102.25
70-80	58.43
80-90	20.45
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	85	81	88	83	79	85	80	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

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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	11.6	13.1	11.9	13.4	13.7	11.5	13.1	11.9	13.4	13.7
	3H	12.9	14.3	13.3	14.6	15.0	12.9	14.2	13.2	14.6	14.9
	4H	13.5	14.8	13.9	15.1	15.5	13.5	14.8	13.9	15.1	15.5
	6H	14.0	15.1	14.4	15.5	15.9	14.1	15.3	14.5	15.7	16.1
	8H	14.1	15.3	14.6	15.7	16.1	14.4	15.5	14.8	15.9	16.3
	12H	14.3	15.3	14.7	15.7	16.2	14.5	15.6	15.0	16.0	16.4

UGR Viewed Endwise

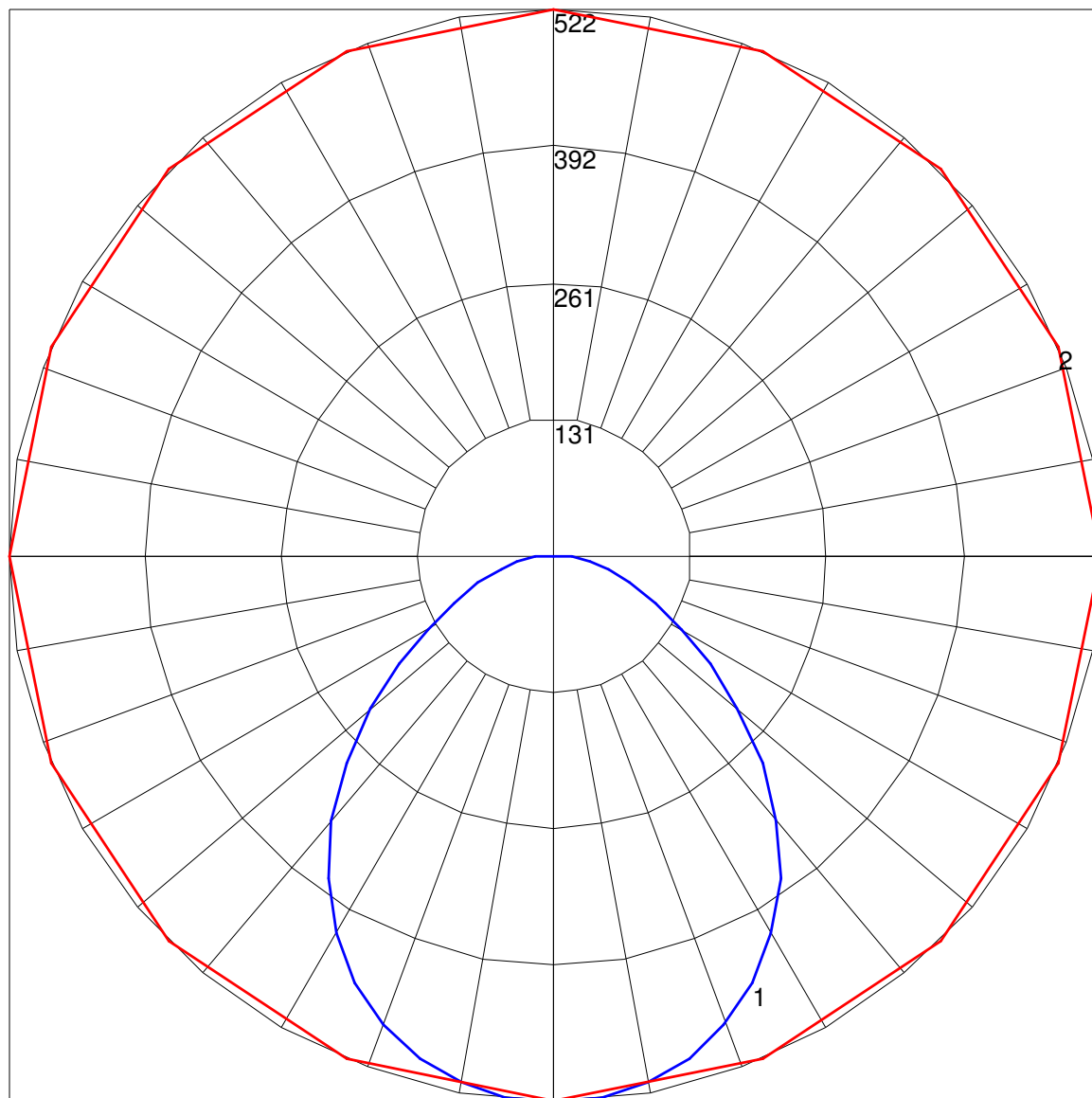
4H	2H	12.0	13.3	12.4	13.6	14.0	11.9	13.2	12.3	13.6	14.0
	3H	13.6	14.7	14.0	15.1	15.5	13.5	14.6	13.9	15.0	15.4
	4H	14.3	15.3	14.7	15.7	16.1	14.3	15.3	14.7	15.7	16.1
	6H	14.9	15.8	15.4	16.2	16.7	15.1	15.9	15.5	16.4	16.8
	8H	15.1	15.9	15.6	16.4	16.8	15.4	16.2	15.9	16.6	17.1
	12H	15.3	16.0	15.8	16.5	17.0	15.7	16.4	16.1	16.8	17.3
8H	4H	14.5	15.3	15.0	15.8	16.2	14.6	15.3	15.0	15.8	16.3
	6H	15.3	16.0	15.8	16.5	16.9	15.5	16.1	16.0	16.6	17.1
	8H	15.6	16.2	16.1	16.7	17.2	15.9	16.5	16.4	17.0	17.5
	12H	15.9	16.4	16.4	16.9	17.5	16.3	16.8	16.8	17.3	17.9
12H	4H	14.6	15.3	15.1	15.8	16.2	14.6	15.3	15.1	15.8	16.2
	6H	15.4	16.0	15.9	16.4	17.0	15.5	16.1	16.1	16.6	17.1
	8H	15.8	16.3	16.3	16.8	17.3	16.0	16.5	16.5	17.0	17.6

Maximum UGR = 17.9

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POLAR GRAPH



Maximum Candela = 522.258 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.)