



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-22-L45-835-SAF12095-(L32)-DIM-UNV_.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] 04-14-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC CARTHAGE, MO. 64836
 [LUMINAIRE] 2x2' LED TROFFER
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] LPT-22-L45-835-SAF12095-(L32)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT
 [_SEARCH_SOURCE TYPE]LED
 [_SEARCH_APPLICATION]INDOOR,OFFICE,CALSSROOM,COMMERCIAL,DIRECT
 [_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3253
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	24.4
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	3718	3784	3813
55	2968	2937	2873
65	2364	2205	2217
75	1945	1895	2146
85	1876	2055	2233

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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	1415.755	1415.755	1415.755	1415.755	1415.755
5	1414.250	1415.002	1409.734	1405.218	1405.218
10	1387.907	1387.907	1390.165	1384.896	1387.907
15	1351.026	1348.768	1352.531	1351.779	1354.789
20	1293.824	1292.319	1293.824	1299.845	1308.124
25	1221.568	1219.311	1223.826	1229.848	1250.170
30	1128.991	1125.228	1128.239	1152.324	1161.356
35	1022.113	1026.629	1026.629	1055.230	1055.230
40	898.677	904.698	908.462	931.794	924.267
45	762.445	760.940	775.993	790.294	782.015
50	620.945	616.429	630.730	641.267	627.719
55	493.745	486.219	488.477	495.251	477.940
60	381.599	373.320	365.793	368.804	358.267
65	289.774	275.474	270.205	270.958	271.711
70	209.240	203.218	196.444	201.713	206.229
75	146.016	148.274	142.253	149.780	161.069
80	95.588	96.341	97.093	103.867	116.662
85	47.418	43.654	51.934	57.955	56.450
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	514.60	N.A.	15.80
0-30	1078.6	N.A.	33.20
0-40	1724.31	N.A.	53.00
0-60	2761.87	N.A.	84.90
0-80	3197.45	N.A.	98.30
0-90	3252.88	N.A.	100.00
10-90	3119.02	N.A.	95.90
20-40	1209.71	N.A.	37.20
20-50	1805.94	N.A.	55.50
40-70	1314.75	N.A.	40.40
60-80	435.58	N.A.	13.40
70-80	158.39	N.A.	4.90
80-90	55.43	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	3252.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.86
10-20	380.74
20-30	564.00
30-40	645.71
40-50	596.23
50-60	441.32
60-70	277.19
70-80	158.39
80-90	55.43
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	15.1	16.6	15.4	16.9	17.2	UGR Viewed Endwise	15.0	16.6	15.4	16.9	17.2
	3H	16.4	17.8	16.8	18.1	18.5		16.4	17.7	16.7	18.1	18.4
	4H	17.0	18.3	17.4	18.6	19.0		17.0	18.3	17.4	18.6	19.0
	6H	17.5	18.6	17.9	19.0	19.4		17.6	18.8	18.0	19.2	19.6
	8H	17.6	18.8	18.1	19.2	19.6		17.9	19.0	18.3	19.4	19.8
	12H	17.8	18.8	18.2	19.2	19.7		18.0	19.1	18.5	19.5	19.9

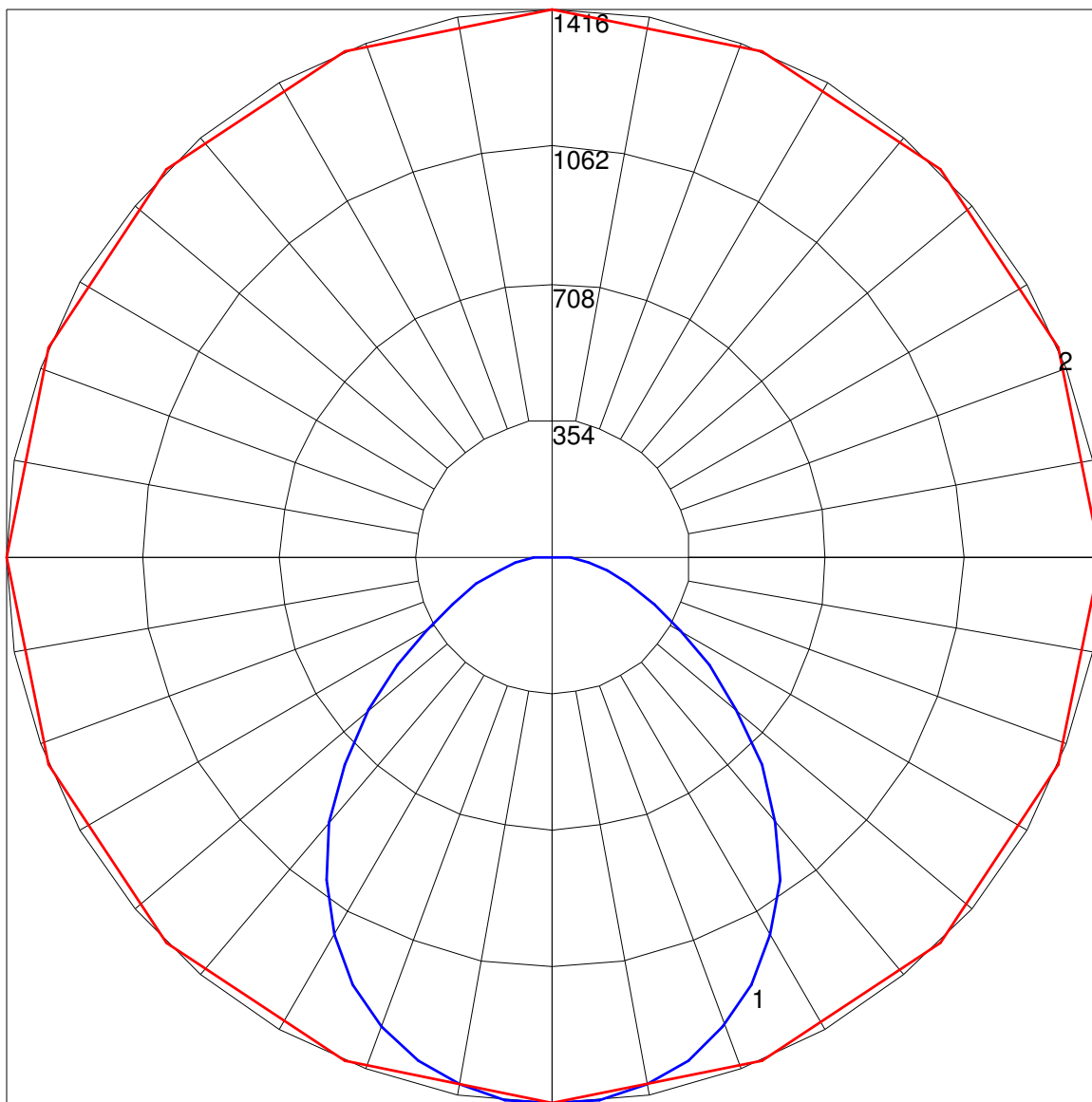
4H	2H	15.5	16.8	15.9	17.1	17.5	15.4	16.7	15.8	17.1	17.5
	3H	17.1	18.2	17.5	18.6	19.0	17.0	18.1	17.4	18.5	18.9
	4H	17.8	18.8	18.2	19.2	19.6	17.8	18.8	18.2	19.2	19.6
	6H	18.4	19.3	18.9	19.7	20.2	18.6	19.4	19.0	19.9	20.3
	8H	18.6	19.4	19.1	19.9	20.3	18.9	19.7	19.4	20.1	20.6
	12H	18.8	19.5	19.3	20.0	20.5	19.2	19.9	19.6	20.3	20.8

8H	4H	18.0	18.8	18.5	19.3	19.7	18.1	18.8	18.5	19.3	19.8
	6H	18.8	19.5	19.3	20.0	20.4	19.0	19.6	19.5	20.1	20.6
	8H	19.1	19.7	19.6	20.2	20.7	19.4	20.0	19.9	20.5	21.0
	12H	19.4	19.9	19.9	20.4	21.0	19.8	20.3	20.3	20.8	21.4

12H	4H	18.1	18.8	18.6	19.3	19.7	18.1	18.8	18.6	19.3	19.7
	6H	18.9	19.5	19.4	19.9	20.5	19.0	19.6	19.6	20.1	20.6
	8H	19.3	19.8	19.8	20.3	20.8	19.5	20.0	20.0	20.5	21.1

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 1415.755 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.)