



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-22-L27-835-SAF12125-(L20)-EM12W-BMTD-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18557.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 11-07-2023
 [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-SAF12125-(L20)-EM12W-BMTD-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	1560
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	12
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.26
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	1838	1816	1794
55	1419	1341	1282
65	1110	1011	1017
75	919	863	979
85	1034	1079	1274

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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	704.614	704.614	704.614	704.614	704.614
5	704.993	704.614	704.614	704.614	704.614
10	690.219	689.461	689.082	689.461	688.703
15	668.247	667.489	668.247	668.247	669.004
20	643.623	643.623	644.381	645.138	646.275
25	596.649	595.891	596.649	598.164	599.680
30	548.917	548.917	548.917	549.675	550.811
35	503.079	502.700	502.700	502.700	504.216
40	436.027	434.133	434.133	432.997	434.133
45	376.931	375.036	372.385	367.839	367.839
50	303.060	300.408	293.968	285.634	284.497
55	236.008	231.462	223.128	215.172	213.278
60	180.321	174.259	167.441	162.137	161.379
65	135.998	129.937	123.876	123.876	124.633
70	98.116	94.327	88.645	94.327	96.600
75	68.946	68.188	64.779	70.840	73.492
80	48.490	47.732	48.111	51.899	55.687
85	26.139	25.760	27.275	31.821	32.200
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	255.43	N.A.	16.40
0-30	530.76	N.A.	34.00
0-40	842.05	N.A.	54.00
0-60	1328.83	N.A.	85.20
0-80	1530.8	N.A.	98.10
0-90	1559.93	N.A.	100.00
10-90	1493.21	N.A.	95.70
20-40	586.62	N.A.	37.60
20-50	870.31	N.A.	55.80
40-70	614.53	N.A.	39.40
60-80	201.97	N.A.	12.90
70-80	74.22	N.A.	4.80
80-90	29.13	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	1559.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.72
10-20	188.71
20-30	275.33
30-40	311.29
40-50	283.68
50-60	203.10
60-70	127.75
70-80	74.22
80-90	29.13
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	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	66	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	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	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	12.4	13.9	12.7	14.2	14.5	11.8	13.3	12.2	13.7	14.0
	3H	13.7	15.1	14.1	15.4	15.8	13.3	14.7	13.7	15.0	15.4
	4H	14.3	15.6	14.7	15.9	16.3	14.0	15.3	14.4	15.6	16.0
	6H	14.8	16.0	15.2	16.3	16.7	14.7	15.8	15.1	16.2	16.6
	8H	15.0	16.1	15.4	16.5	16.9	14.9	16.1	15.4	16.5	16.9
	12H	15.2	16.2	15.6	16.6	17.1	15.2	16.3	15.7	16.7	17.1

UGR Viewed Endwise

4H	2H	12.8	14.0	13.2	14.4	14.8	12.3	13.6	12.7	13.9	14.3
	3H	14.3	15.4	14.7	15.8	16.2	14.0	15.1	14.4	15.5	15.9
	4H	15.0	16.0	15.5	16.4	16.8	14.8	15.8	15.3	16.2	16.6
	6H	15.7	16.5	16.1	17.0	17.4	15.7	16.5	16.1	17.0	17.4
	8H	16.0	16.8	16.4	17.2	17.7	16.1	16.9	16.5	17.3	17.8
	12H	16.2	16.9	16.7	17.4	17.9	16.4	17.1	16.9	17.6	18.1

8H	4H	15.3	16.1	15.7	16.5	17.0	15.1	15.9	15.6	16.3	16.8
	6H	16.1	16.8	16.6	17.3	17.7	16.1	16.8	16.6	17.3	17.7
	8H	16.5	17.1	17.0	17.6	18.1	16.6	17.2	17.1	17.7	18.2
	12H	16.9	17.4	17.4	17.9	18.4	17.2	17.7	17.7	18.2	18.7

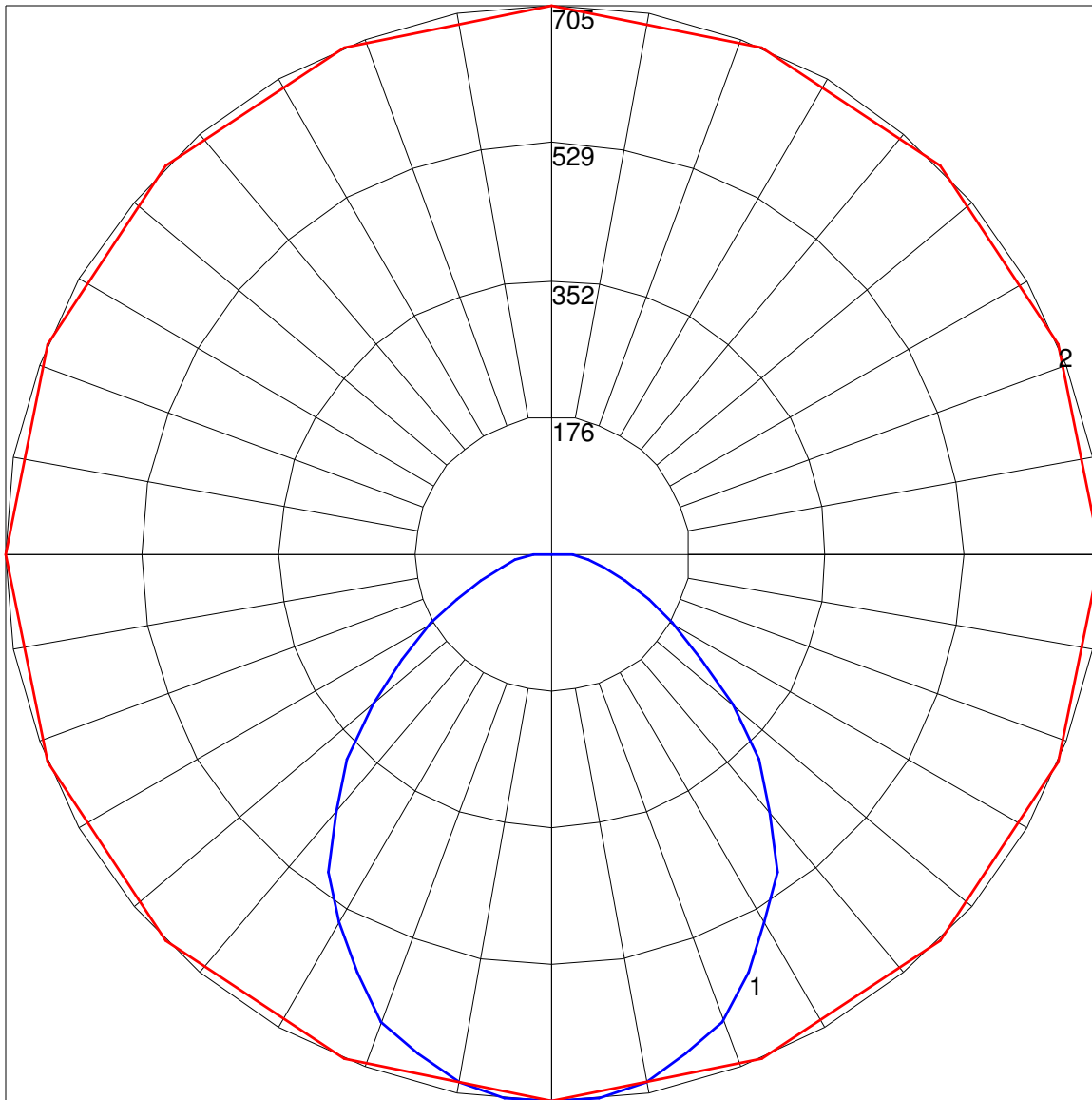
12H	4H	15.3	16.0	15.8	16.5	17.0	15.1	15.8	15.6	16.3	16.8
	6H	16.2	16.8	16.7	17.3	17.8	16.2	16.8	16.7	17.3	17.8
	8H	16.7	17.2	17.2	17.7	18.2	16.8	17.3	17.3	17.8	18.4

Maximum UGR = 18.7

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POLAR GRAPH



Maximum Candela = 704.993 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.)