



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-22-L45-840-SAF12125-(L30)-DIM-UNV_.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] 08-22-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO.64836
 [LUMINAIRE] 2x2' LED TROFFER
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] LPT-22-L45-840-SAF12125-(L30)--DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K 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	3132
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	22.8
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	3690	3646	3601
55	2848	2693	2574
65	2228	2029	2042
75	1844	1733	1966
85	2076	2166	2558

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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	1414.648	1414.648	1414.648	1414.648	1414.648
5	1415.408	1414.648	1414.648	1414.648	1414.648
10	1385.746	1384.225	1383.465	1384.225	1382.704
15	1341.634	1340.113	1341.634	1341.634	1343.155
20	1292.197	1292.197	1293.718	1295.239	1297.521
25	1197.887	1196.366	1197.887	1200.930	1203.972
30	1102.056	1102.056	1102.056	1103.577	1105.859
35	1010.028	1009.268	1009.268	1009.268	1012.310
40	875.408	871.606	871.606	869.324	871.606
45	756.761	752.958	747.634	738.507	738.507
50	608.451	603.127	590.197	573.465	571.183
55	473.831	464.704	447.972	432.000	428.197
60	362.028	349.859	336.169	325.521	324.000
65	273.042	260.873	248.704	248.704	250.225
70	196.986	189.380	177.972	189.380	193.944
75	138.423	136.901	130.056	142.225	147.549
80	97.352	95.831	96.592	104.197	111.803
85	52.479	51.718	54.761	63.887	64.648
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	512.82	N.A.	16.40
0-30	1065.6	N.A.	34.00
0-40	1690.58	N.A.	54.00
0-60	2667.88	N.A.	85.20
0-80	3073.38	N.A.	98.10
0-90	3131.85	N.A.	100.00
10-90	2997.91	N.A.	95.70
20-40	1177.76	N.A.	37.60
20-50	1747.31	N.A.	55.80
40-70	1233.79	N.A.	39.40
60-80	405.50	N.A.	12.90
70-80	149.01	N.A.	4.80
80-90	58.48	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	3131.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.95
10-20	378.87
20-30	552.79
30-40	624.98
40-50	569.55
50-60	407.75
60-70	256.49
70-80	149.01
80-90	58.48
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	14.9	16.4	15.2	16.7	17.0	14.3	15.8	14.7	16.2	16.5
	3H	16.2	17.6	16.6	17.9	18.3	15.8	17.2	16.2	17.5	17.9
	4H	16.8	18.1	17.2	18.4	18.8	16.5	17.8	16.9	18.1	18.5
	6H	17.3	18.5	17.7	18.8	19.2	17.2	18.3	17.6	18.7	19.1
	8H	17.5	18.6	17.9	19.0	19.4	17.4	18.6	17.9	19.0	19.4
	12H	17.7	18.7	18.1	19.1	19.6	17.7	18.8	18.2	19.2	19.6

UGR Viewed Endwise

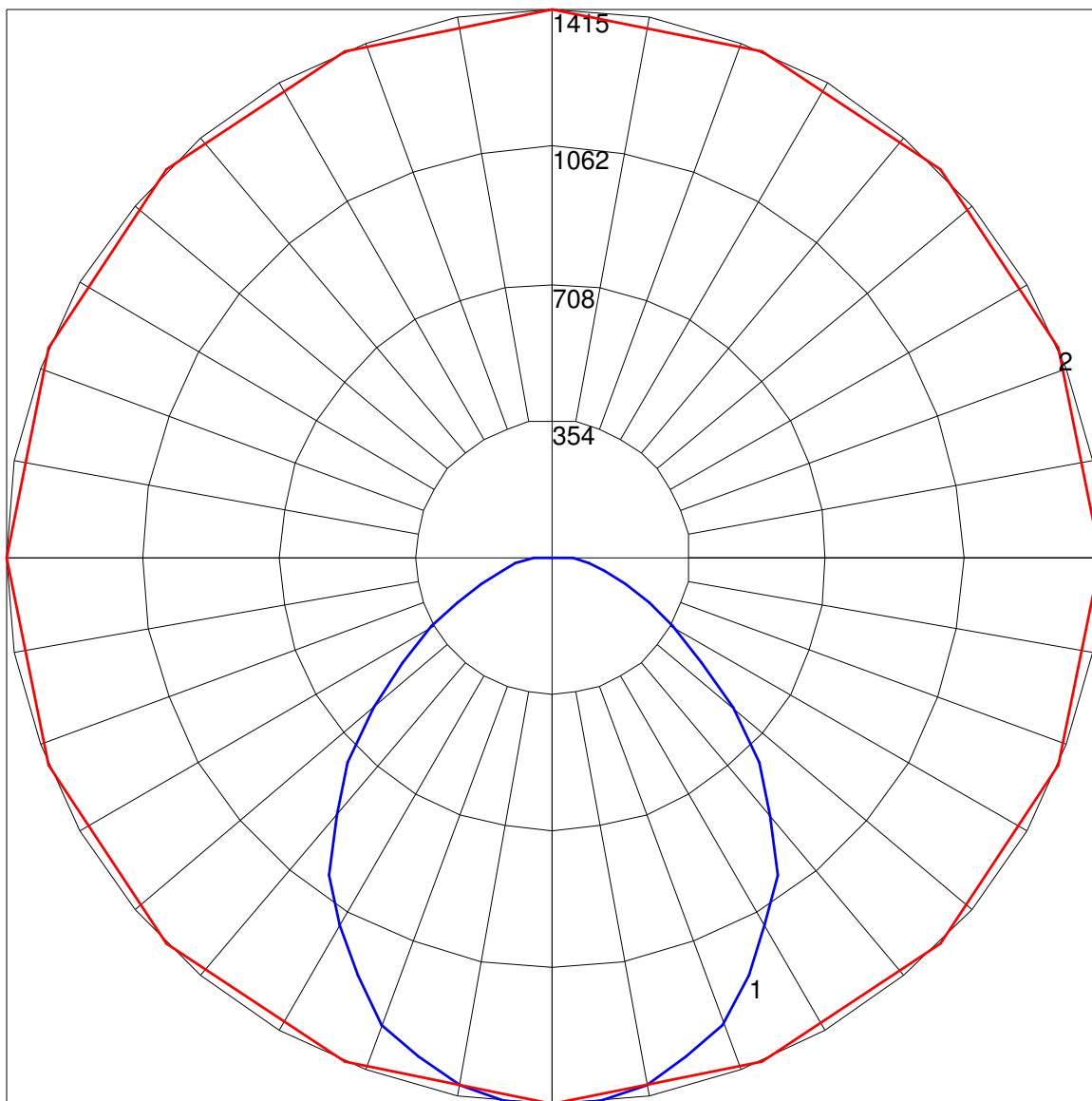
4H	2H	15.3	16.5	15.7	16.9	17.3	14.8	16.1	15.2	16.4	16.8
	3H	16.8	17.9	17.2	18.3	18.7	16.5	17.6	16.9	18.0	18.4
	4H	17.5	18.5	18.0	18.9	19.3	17.3	18.3	17.8	18.7	19.1
	6H	18.2	19.0	18.6	19.5	19.9	18.2	19.0	18.6	19.5	19.9
	8H	18.5	19.3	18.9	19.7	20.2	18.6	19.4	19.0	19.8	20.3
	12H	18.7	19.4	19.2	19.9	20.4	18.9	19.6	19.4	20.1	20.6

8H	4H	17.8	18.6	18.2	19.0	19.5	17.6	18.4	18.1	18.8	19.3
	6H	18.6	19.3	19.1	19.8	20.2	18.6	19.3	19.1	19.8	20.2
	8H	19.0	19.6	19.5	20.1	20.6	19.1	19.7	19.6	20.2	20.7
	12H	19.4	19.9	19.9	20.4	20.9	19.7	20.2	20.2	20.7	21.2

12H	4H	17.8	18.5	18.3	19.0	19.5	17.6	18.3	18.1	18.8	19.3
	6H	18.7	19.3	19.2	19.8	20.3	18.7	19.3	19.2	19.8	20.3
	8H	19.2	19.7	19.7	20.2	20.7	19.3	19.8	19.8	20.3	20.9

Maximum UGR = 21.2

POLAR GRAPH



Maximum Candela = 1415.408 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.)