



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-22-L27-840-SAF12095-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
 [ISSUEDATE] 05-27-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC CARTHAGE, MO.64836
 [LUMINAIRE]2x2' LED TROFFER
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] LPT-22-L27-840-SAF12095-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	2742
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	21.4
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	3134	3189	3214
55	2502	2475	2422
65	1993	1858	1869
75	1640	1597	1809
85	1581	1732	1882

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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	1193.299	1193.299	1193.299	1193.299	1193.299
5	1192.030	1192.665	1188.224	1184.417	1184.417
10	1169.826	1169.826	1171.730	1167.289	1169.826
15	1138.741	1136.838	1140.010	1139.375	1141.913
20	1090.527	1089.258	1090.527	1095.602	1102.580
25	1029.625	1027.722	1031.528	1036.603	1053.732
30	951.594	948.422	950.960	971.260	978.873
35	861.510	865.316	865.316	889.423	889.423
40	757.469	762.544	765.716	785.382	779.038
45	642.643	641.374	654.062	666.116	659.138
50	523.377	519.570	531.624	540.505	529.086
55	416.164	409.820	411.723	417.433	402.842
60	321.639	314.660	308.316	310.854	301.973
65	244.242	232.189	227.748	228.383	229.017
70	176.362	171.287	165.577	170.018	173.825
75	123.073	124.976	119.901	126.245	135.761
80	80.568	81.203	81.837	87.547	98.331
85	39.967	36.795	43.773	48.848	47.580
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	433.74	N.A.	15.80
0-30	909.12	N.A.	33.20
0-40	1453.37	N.A.	53.00
0-60	2327.9	N.A.	84.90
0-80	2695.04	N.A.	98.30
0-90	2741.76	N.A.	100.00
10-90	2628.93	N.A.	95.90
20-40	1019.63	N.A.	37.20
20-50	1522.18	N.A.	55.50
40-70	1108.17	N.A.	40.40
60-80	367.14	N.A.	13.40
70-80	133.50	N.A.	4.90
80-90	46.72	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	2741.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	112.83
10-20	320.92
20-30	475.38
30-40	544.25
40-50	502.55
50-60	371.98
60-70	233.64
70-80	133.50
80-90	46.72
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	99	96	99	96	93	95	93	90	91	89	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	37	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

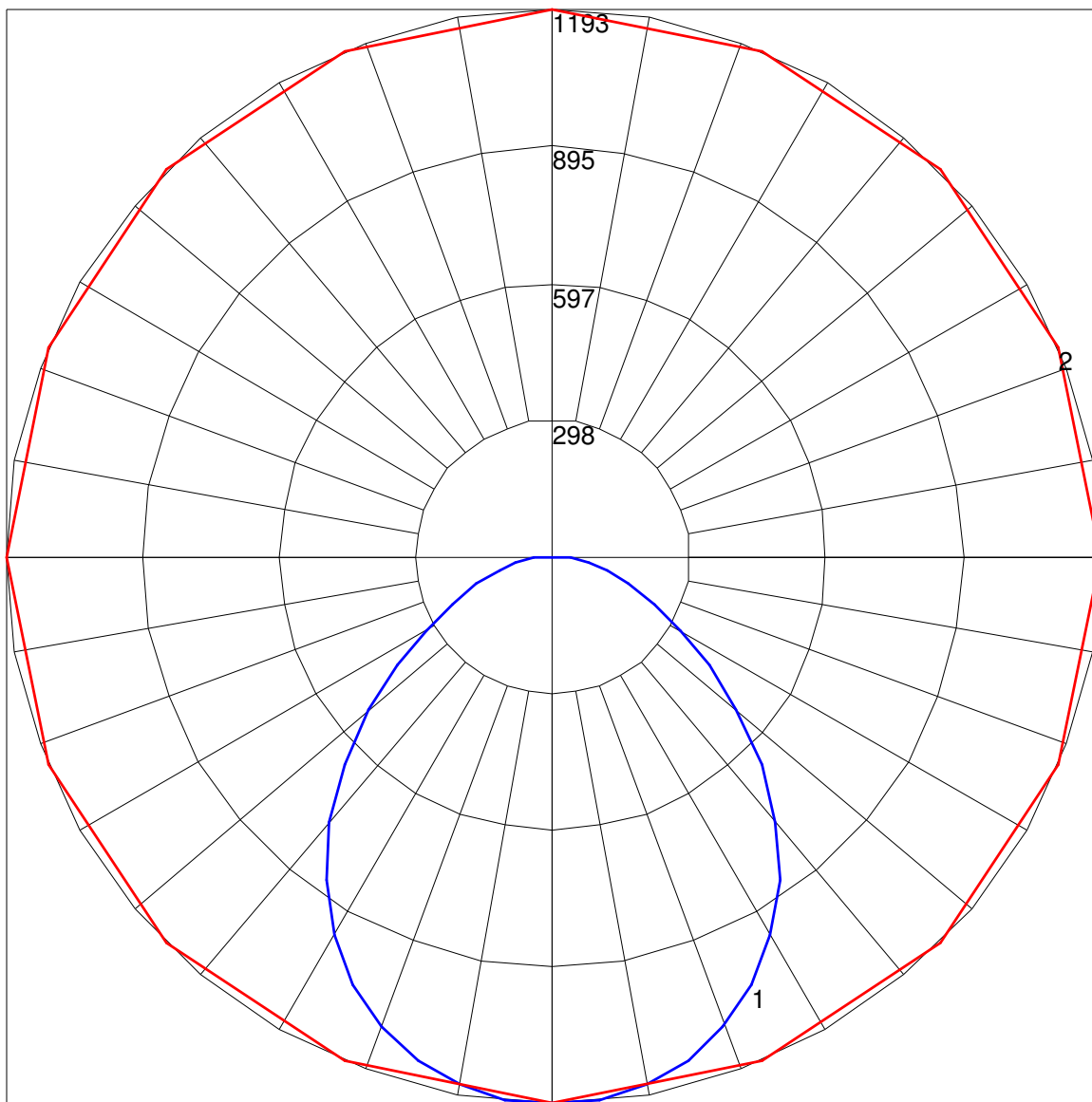
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.5	16.0	14.8	16.3	16.6	14.4	16.0	14.8	16.3	16.6
	3H	15.8	17.2	16.2	17.5	17.9	15.8	17.1	16.1	17.5	17.8
	4H	16.4	17.7	16.8	18.0	18.4	16.4	17.7	16.8	18.0	18.4
	6H	16.9	18.1	17.3	18.4	18.8	17.0	18.2	17.4	18.6	19.0
	8H	17.0	18.2	17.5	18.6	19.0	17.3	18.4	17.7	18.8	19.2
	12H	17.2	18.3	17.6	18.6	19.1	17.4	18.5	17.9	18.9	19.3
4H	2H	14.9	16.2	15.3	16.5	16.9	14.8	16.1	15.2	16.5	16.9
	3H	16.5	17.6	16.9	18.0	18.4	16.4	17.5	16.8	17.9	18.3
	4H	17.2	18.2	17.6	18.6	19.0	17.2	18.2	17.6	18.6	19.0
	6H	17.8	18.7	18.3	19.1	19.6	18.0	18.8	18.4	19.3	19.7
	8H	18.0	18.8	18.5	19.3	19.7	18.3	19.1	18.8	19.5	20.0
	12H	18.2	18.9	18.7	19.4	19.9	18.6	19.3	19.0	19.7	20.2
8H	4H	17.5	18.2	17.9	18.7	19.2	17.5	18.2	17.9	18.7	19.2
	6H	18.2	18.9	18.7	19.4	19.8	18.4	19.0	18.9	19.5	20.0
	8H	18.5	19.1	19.0	19.6	20.1	18.8	19.4	19.3	19.9	20.4
	12H	18.8	19.3	19.3	19.8	20.4	19.2	19.7	19.7	20.2	20.8
12H	4H	17.5	18.2	18.0	18.7	19.1	17.5	18.2	18.0	18.7	19.1
	6H	18.3	18.9	18.8	19.3	19.9	18.4	19.0	19.0	19.5	20.0
	8H	18.7	19.2	19.2	19.7	20.2	18.9	19.4	19.4	19.9	20.5

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 1193.299 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.)