



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-22-L45-835-SAF12095-(L30)-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] 02-01-2023
 [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-(L30)-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	3044
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	22.8
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	3479	3541	3568
55	2778	2748	2689
65	2212	2063	2074
75	1820	1773	2008
85	1755	1923	2090

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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	1324.795	1324.795	1324.795	1324.795	1324.795
5	1323.387	1324.091	1319.161	1314.935	1314.935
10	1298.736	1298.736	1300.849	1295.919	1298.736
15	1264.225	1262.112	1265.634	1264.929	1267.747
20	1210.698	1209.289	1210.698	1216.332	1224.080
25	1143.085	1140.972	1145.198	1150.832	1169.848
30	1056.455	1052.934	1055.751	1078.289	1086.740
35	956.444	960.670	960.670	987.434	987.434
40	840.939	846.573	850.094	871.928	864.885
45	713.460	712.051	726.137	739.519	731.771
50	581.050	576.825	590.206	600.067	587.389
55	462.023	454.980	457.093	463.432	447.233
60	357.082	349.335	342.292	345.109	335.249
65	271.157	257.775	252.845	253.549	254.254
70	195.796	190.162	183.823	188.753	192.979
75	136.635	138.748	133.113	140.156	150.721
80	89.447	90.151	90.855	97.194	109.167
85	44.371	40.850	48.597	54.231	52.823
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	481.54	N.A.	15.80
0-30	1009.31	N.A.	33.20
0-40	1613.53	N.A.	53.00
0-60	2584.42	N.A.	84.90
0-80	2992.02	N.A.	98.30
0-90	3043.89	N.A.	100.00
10-90	2918.63	N.A.	95.90
20-40	1131.99	N.A.	37.20
20-50	1689.92	N.A.	55.50
40-70	1230.28	N.A.	40.40
60-80	407.60	N.A.	13.40
70-80	148.21	N.A.	4.90
80-90	51.87	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	3043.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.26
10-20	356.28
20-30	527.77
30-40	604.22
40-50	557.93
50-60	412.97
60-70	259.39
70-80	148.21
80-90	51.87
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

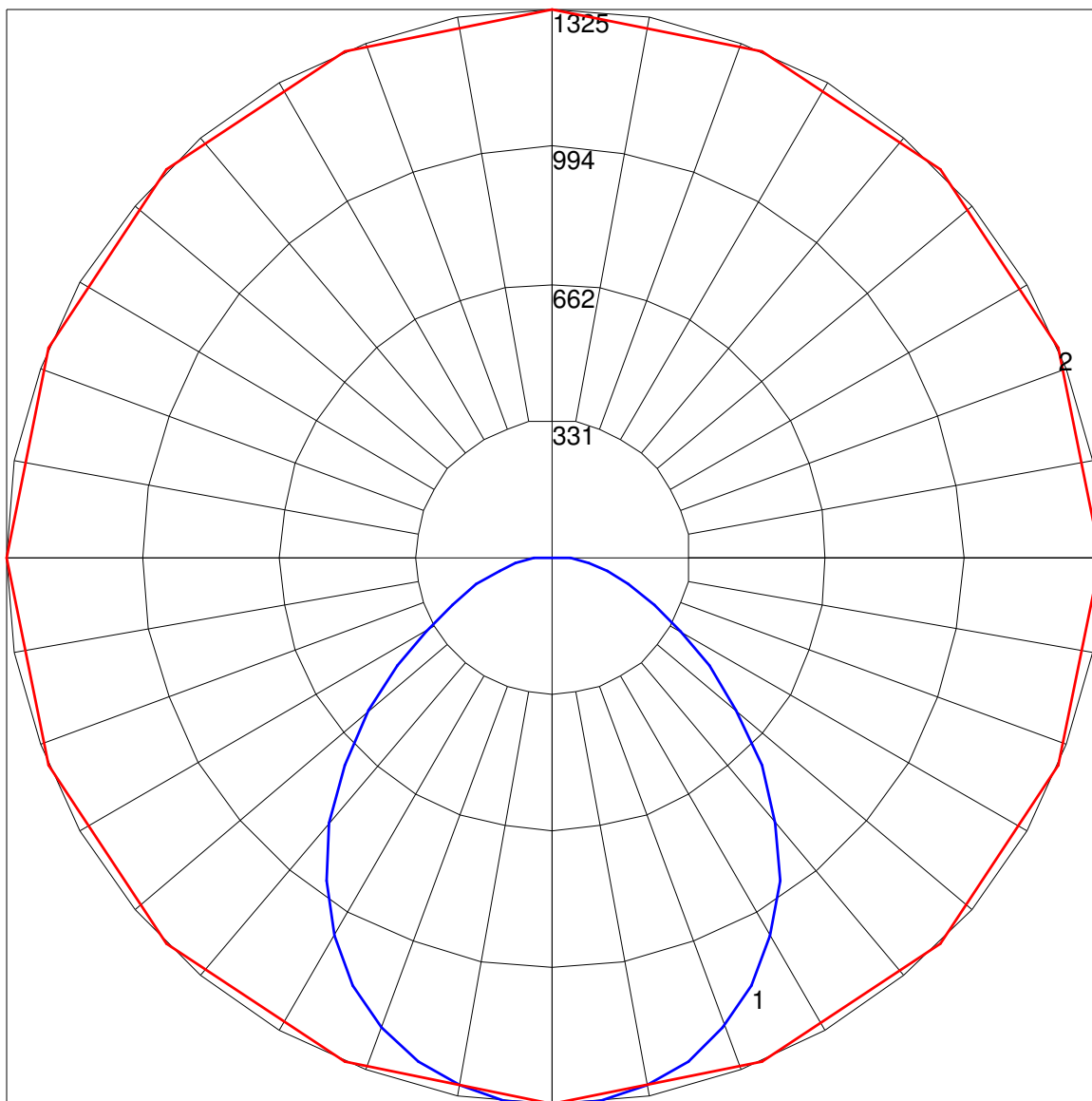
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	14.9	16.4	15.2	16.7	17.0	14.8	16.4	15.2	16.7	17.0
	3H	16.2	17.6	16.6	17.9	18.3	16.2	17.5	16.5	17.9	18.2
	4H	16.8	18.1	17.2	18.4	18.8	16.8	18.1	17.2	18.4	18.8
	6H	17.3	18.4	17.7	18.8	19.2	17.4	18.6	17.8	19.0	19.4
	8H	17.4	18.6	17.9	19.0	19.4	17.7	18.8	18.1	19.2	19.6
	12H	17.6	18.6	18.0	19.0	19.5	17.8	18.9	18.3	19.3	19.7
4H	2H	15.3	16.6	15.7	16.9	17.3	15.2	16.5	15.6	16.9	17.3
	3H	16.9	18.0	17.3	18.4	18.8	16.8	17.9	17.2	18.3	18.7
	4H	17.6	18.6	18.0	19.0	19.4	17.6	18.6	18.0	19.0	19.4
	6H	18.2	19.1	18.7	19.5	20.0	18.4	19.2	18.8	19.7	20.1
	8H	18.4	19.2	18.9	19.7	20.1	18.7	19.5	19.2	19.9	20.4
	12H	18.6	19.3	19.1	19.8	20.3	19.0	19.7	19.4	20.1	20.6
8H	4H	17.8	18.6	18.3	19.1	19.5	17.9	18.6	18.3	19.1	19.6
	6H	18.6	19.3	19.1	19.8	20.2	18.8	19.4	19.3	19.9	20.4
	8H	18.9	19.5	19.4	20.0	20.5	19.2	19.8	19.7	20.3	20.8
	12H	19.2	19.7	19.7	20.2	20.8	19.6	20.1	20.1	20.6	21.2
12H	4H	17.9	18.6	18.4	19.1	19.5	17.9	18.6	18.4	19.1	19.5
	6H	18.7	19.3	19.2	19.7	20.3	18.8	19.4	19.4	19.9	20.4
	8H	19.1	19.6	19.6	20.1	20.6	19.3	19.8	19.8	20.3	20.9

Maximum UGR = 21.2

POLAR GRAPH



Maximum Candela = 1324.795 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.)