



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-22-L54-840-SAF12095-(L48)-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] 10-AUG-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC CARTHAGE, MO
 [LUMINAIRE] 2 x 2 WHITE LED RECESSED LUMINAIRE
 [MORE] WHITE REFLS w/PAT12 LENS (PRISMS DOWN)
 [MORE] 0-10V DIMMING DRIVER
 [LUMCAT] LPT-22-L54-840-SAF12095-(L48)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT
 [_SEARCH_SOURCETYPE]LED
 [_SEARCH_APPLICATION]INDOOR,CLASSROOM,COMMERCIAL,OFFICE,DIRECT
 [_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4897
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	34
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	5597	5696	5741
55	4468	4421	4325
65	3559	3319	3337
75	2928	2853	3230
85	2824	3093	3362

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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	2131.248	2131.248	2131.248	2131.248	2131.248
5	2128.982	2130.115	2122.184	2115.386	2115.386
10	2089.326	2089.326	2092.725	2084.794	2089.326
15	2033.807	2030.408	2036.073	2034.940	2039.472
20	1947.696	1945.430	1947.696	1956.760	1969.223
25	1838.924	1835.525	1842.323	1851.387	1881.979
30	1699.560	1693.895	1698.427	1734.684	1748.281
35	1538.668	1545.466	1545.466	1588.522	1588.522
40	1352.850	1361.914	1367.579	1402.703	1391.373
45	1147.769	1145.503	1168.164	1189.692	1177.229
50	934.758	927.960	949.487	965.350	944.955
55	743.274	731.944	735.343	745.540	719.480
60	574.451	561.988	550.657	555.190	539.327
65	436.220	414.693	406.761	407.894	409.027
70	314.985	305.921	295.723	303.655	310.453
75	219.810	223.209	214.145	225.475	242.471
80	143.896	145.029	146.162	156.360	175.621
85	71.382	65.716	78.180	87.244	84.978
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	774.67	N.A.	15.80
0-30	1623.71	N.A.	33.20
0-40	2595.74	N.A.	53.00
0-60	4157.66	N.A.	84.90
0-80	4813.38	N.A.	98.30
0-90	4896.82	N.A.	100.00
10-90	4695.31	N.A.	95.90
20-40	1821.07	N.A.	37.20
20-50	2718.63	N.A.	55.50
40-70	1979.2	N.A.	40.40
60-80	655.72	N.A.	13.40
70-80	238.44	N.A.	4.90
80-90	83.44	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	4896.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	201.51
10-20	573.16
20-30	849.04
30-40	972.03
40-50	897.56
50-60	664.36
60-70	417.28
70-80	238.44
80-90	83.44
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	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

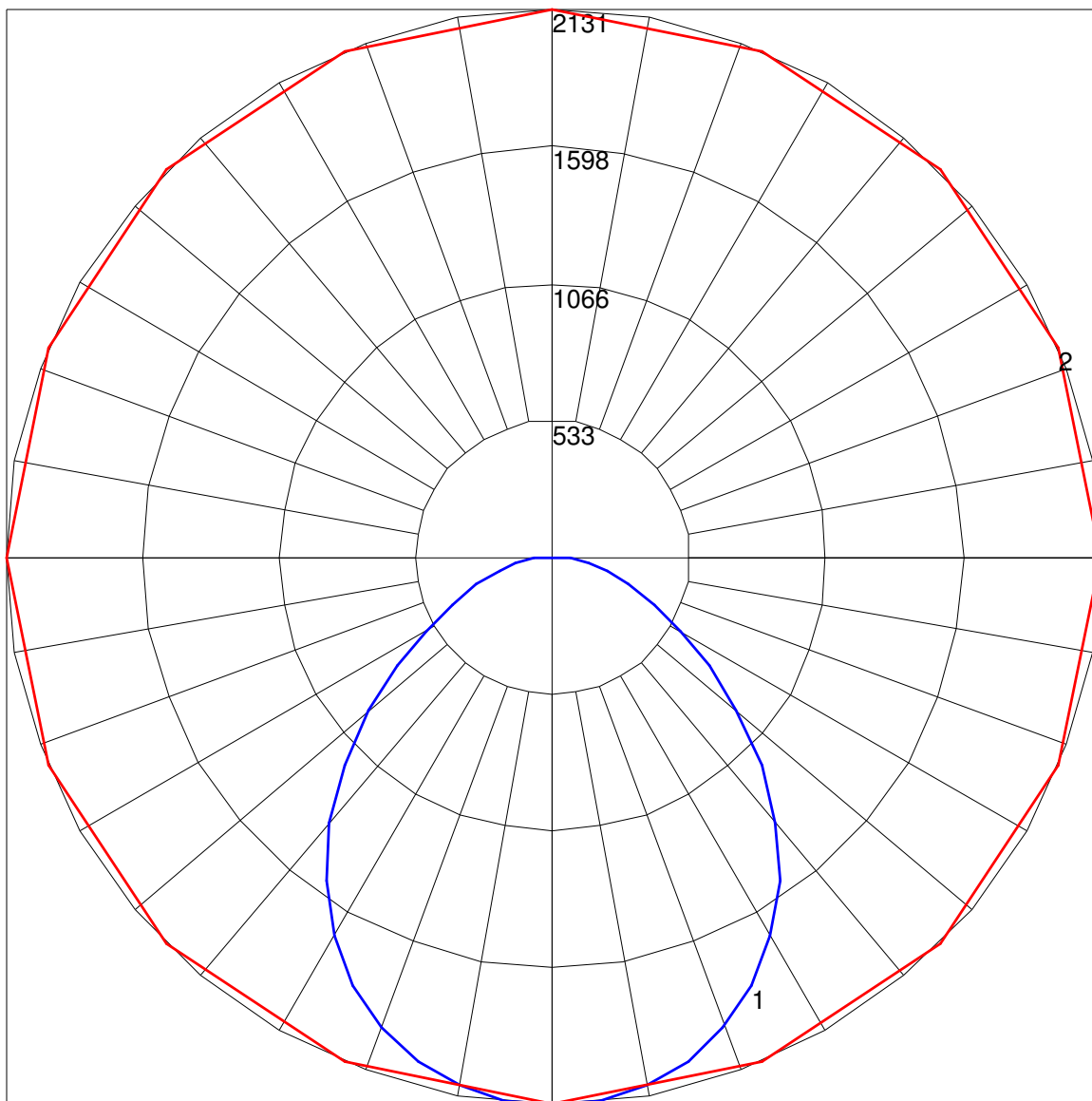
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UGR TABLE - CORRECTED

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	16.5	18.0	16.8	18.3	18.6	16.4	18.0	16.8	18.3	18.6
	3H	17.8	19.2	18.2	19.5	19.9	17.8	19.1	18.1	19.5	19.8
	4H	18.4	19.7	18.8	20.0	20.4	18.4	19.7	18.8	20.0	20.4
	6H	18.9	20.0	19.3	20.4	20.8	19.0	20.2	19.4	20.6	21.0
	8H	19.0	20.2	19.5	20.6	21.0	19.3	20.4	19.7	20.8	21.2
	12H	19.2	20.2	19.6	20.6	21.1	19.4	20.5	19.9	20.9	21.3
4H	2H	16.9	18.2	17.3	18.5	18.9	16.8	18.1	17.2	18.5	18.9
	3H	18.5	19.6	18.9	20.0	20.4	18.4	19.5	18.8	19.9	20.3
	4H	19.2	20.2	19.6	20.6	21.0	19.2	20.2	19.6	20.6	21.0
	6H	19.8	20.7	20.3	21.1	21.6	20.0	20.8	20.4	21.3	21.7
	8H	20.0	20.8	20.5	21.3	21.7	20.3	21.1	20.8	21.5	22.0
	12H	20.2	20.9	20.7	21.4	21.9	20.6	21.3	21.0	21.7	22.2
8H	4H	19.5	20.2	19.9	20.7	21.2	19.5	20.2	19.9	20.7	21.2
	6H	20.2	20.9	20.7	21.4	21.8	20.4	21.0	20.9	21.5	22.0
	8H	20.5	21.1	21.0	21.6	22.1	20.8	21.4	21.3	21.9	22.4
	12H	20.8	21.3	21.3	21.8	22.4	21.2	21.7	21.7	22.2	22.8
12H	4H	19.5	20.2	20.0	20.7	21.1	19.5	20.2	20.0	20.7	21.1
	6H	20.3	20.9	20.8	21.3	21.9	20.4	21.0	21.0	21.5	22.0
	8H	20.7	21.2	21.2	21.7	22.2	20.9	21.4	21.4	21.9	22.5

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 2131.248 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.)