



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-22-L45-8TW-SAF12095-DIM-UNV 4000K_.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] 27-MAR-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC CARTHAGE, MO

[LUMINAIRE] 2-56 LED 22" ARRAYS 2x2' WHITE REFL RECESSED LUMINAIRE

[MORE] ARRAYS ON INTERNAL WHITE REFLS w/PAT12 LENS (PRISMS DOWN)

[LUMCAT] LPT-22-L45-8TW-SAF12095-DALI-UNV 4000k

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,DIRECT

[_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4588
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	40.8
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	5244	5337	5378
55	4186	4142	4052
65	3335	3109	3127
75	2744	2673	3026
85	2646	2898	3150

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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	1996.766	1996.766	1996.766	1996.766	1996.766
5	1994.643	1995.705	1988.274	1981.905	1981.905
10	1957.489	1957.489	1960.674	1953.243	1957.489
15	1905.473	1902.289	1907.596	1906.535	1910.781
20	1824.796	1822.673	1824.796	1833.288	1844.965
25	1722.888	1719.703	1726.072	1734.565	1763.226
30	1592.318	1587.010	1591.256	1625.225	1637.964
35	1441.578	1447.947	1447.947	1488.286	1488.286
40	1267.485	1275.977	1281.285	1314.193	1303.577
45	1075.345	1073.222	1094.453	1114.622	1102.945
50	875.775	869.405	889.575	904.436	885.329
55	696.374	685.758	688.943	698.497	674.081
60	538.203	526.526	515.911	520.157	505.295
65	408.695	388.525	381.095	382.156	383.218
70	295.110	286.617	277.063	284.494	290.863
75	205.940	209.124	200.632	211.247	227.171
80	134.816	135.878	136.939	146.493	164.539
85	66.877	61.570	73.247	81.739	79.616
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	725.79	N.A.	15.80
0-30	1521.25	N.A.	33.20
0-40	2431.95	N.A.	53.00
0-60	3895.31	N.A.	84.90
0-80	4509.65	N.A.	98.30
0-90	4587.83	N.A.	100.00
10-90	4399.03	N.A.	95.90
20-40	1706.16	N.A.	37.20
20-50	2547.09	N.A.	55.50
40-70	1854.31	N.A.	40.40
60-80	614.34	N.A.	13.40
70-80	223.39	N.A.	4.90
80-90	78.18	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	4587.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	188.80
10-20	536.99
20-30	795.46
30-40	910.70
40-50	840.92
50-60	622.44
60-70	390.95
70-80	223.39
80-90	78.18
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	205	205	205	205	200	200	200	200	191	191	191	183	183	183	176	176	176	172
1	189	182	175	169	184	178	171	166	170	165	161	164	160	156	158	154	151	148
2	174	160	150	141	169	157	147	139	151	143	136	146	139	133	141	135	130	126
3	159	143	130	119	155	140	128	118	135	125	116	130	121	114	126	119	112	109
4	147	128	114	103	143	125	112	102	121	110	101	117	107	99	114	105	98	94
5	136	115	100	90	132	113	99	89	110	97	88	106	96	87	103	94	86	83
6	126	104	90	79	123	103	89	79	100	87	78	97	86	78	94	84	77	74
7	117	95	81	71	114	94	80	70	91	79	70	89	78	69	86	76	69	66
8	109	87	73	64	107	86	73	63	84	72	63	82	71	63	80	70	62	59
9	102	80	67	58	100	79	66	57	77	65	57	76	65	57	74	64	57	54
10	96	74	61	52	94	73	61	52	72	60	52	70	59	52	69	59	52	49

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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

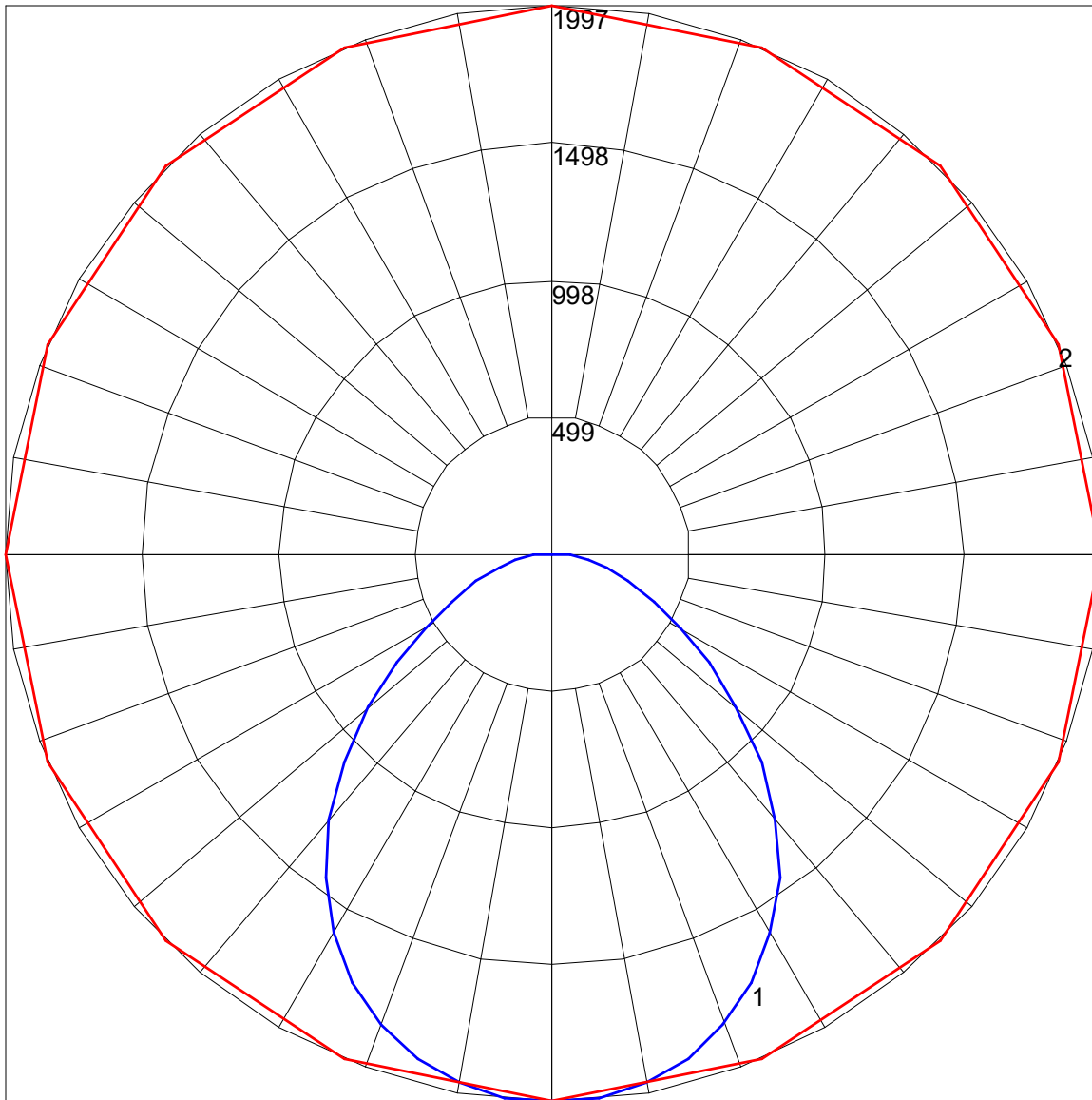
X=2H	Y=2H	14.4	15.9	14.7	16.2	16.5	14.3	15.9	14.7	16.2	16.5
	3H	15.7	17.1	16.1	17.4	17.8	15.7	17.0	16.0	17.4	17.7
	4H	16.3	17.6	16.7	17.9	18.3	16.3	17.6	16.7	17.9	18.3
	6H	16.8	17.9	17.2	18.3	18.7	16.9	18.1	17.3	18.5	18.9
	8H	16.9	18.1	17.4	18.5	18.9	17.2	18.3	17.6	18.7	19.1
	12H	17.1	18.1	17.5	18.5	19.0	17.3	18.4	17.8	18.8	19.2

UGR Viewed Endwise

4H	2H	14.8	16.1	15.2	16.4	16.8	14.7	16.0	15.1	16.4	16.8
	3H	16.4	17.5	16.8	17.9	18.3	16.3	17.4	16.7	17.8	18.2
	4H	17.1	18.1	17.5	18.5	18.9	17.1	18.1	17.5	18.5	18.9
	6H	17.7	18.6	18.2	19.0	19.5	17.9	18.7	18.3	19.2	19.6
	8H	17.9	18.7	18.4	19.2	19.6	18.2	19.0	18.7	19.4	19.9
	12H	18.1	18.8	18.6	19.3	19.8	18.5	19.2	18.9	19.6	20.1
8H	4H	17.3	18.1	17.8	18.6	19.0	17.4	18.1	17.8	18.6	19.1
	6H	18.1	18.8	18.6	19.3	19.7	18.3	18.9	18.8	19.4	19.9
	8H	18.4	19.0	18.9	19.5	20.0	18.7	19.3	19.2	19.8	20.3
	12H	18.7	19.2	19.2	19.7	20.3	19.1	19.6	19.6	20.1	20.7
12H	4H	17.4	18.1	17.9	18.6	19.0	17.4	18.1	17.9	18.6	19.0
	6H	18.2	18.8	18.7	19.2	19.8	18.3	18.9	18.9	19.4	19.9
	8H	18.6	19.1	19.1	19.6	20.1	18.8	19.3	19.3	19.8	20.4

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 1996.766 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.)