

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-22-L45-840-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] 07-03-2023

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

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

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

[LUMCAT] LPT-22-L45-840-SAF12095-DIM-UNV

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,CLASSROOM,COMMERCIAL,OFFICE,DIRECT

[_SEARCH_MOUNTING]RECESSED

[_SEARCH_CERTIFICATION]DLC

[MANUFAC] WILLIAMS INDOOR

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4558
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	33.7
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	5209	5302	5343
55	4159	4114	4026
65	3313	3089	3106
75	2726	2655	3007
85	2628	2879	3129

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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	1983.601	1983.601	1983.601	1983.601	1983.601
5	1981.492	1982.546	1975.165	1968.837	1968.837
10	1944.583	1944.583	1947.746	1940.365	1944.583
15	1892.910	1889.746	1895.019	1893.965	1898.183
20	1812.765	1810.655	1812.765	1821.201	1832.801
25	1711.528	1708.365	1714.692	1723.128	1751.601
30	1581.819	1576.546	1580.764	1614.510	1627.164
35	1432.073	1438.401	1438.401	1478.473	1478.473
40	1259.128	1267.564	1272.837	1305.528	1294.982
45	1068.255	1066.146	1087.237	1107.273	1095.673
50	870.000	863.673	883.710	898.473	879.491
55	691.782	681.237	684.400	693.891	669.637
60	534.655	523.055	512.509	516.728	501.964
65	406.000	385.964	378.582	379.637	380.691
70	293.164	284.727	275.237	282.618	288.946
75	204.582	207.746	199.309	209.855	225.673
80	133.927	134.982	136.036	145.527	163.455
85	66.436	61.164	72.764	81.200	79.091
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	721.00	N.A.	15.80
0-30	1511.22	N.A.	33.20
0-40	2415.92	N.A.	53.00
0-60	3869.63	N.A.	84.90
0-80	4479.92	N.A.	98.30
0-90	4557.58	N.A.	100.00
10-90	4370.03	N.A.	95.90
20-40	1694.91	N.A.	37.20
20-50	2530.29	N.A.	55.50
40-70	1842.08	N.A.	40.40
60-80	610.29	N.A.	13.40
70-80	221.92	N.A.	4.90
80-90	77.66	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	4557.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.55
10-20	533.45
20-30	790.22
30-40	904.69
40-50	835.38
50-60	618.33
60-70	388.37
70-80	221.92
80-90	77.66
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

X=2H	Y=2H	16.3	17.8	16.6	18.1	18.4	16.2	17.8	16.6	18.1	18.4
	3H	17.6	19.0	18.0	19.3	19.7	17.6	18.9	17.9	19.3	19.6
	4H	18.2	19.5	18.6	19.8	20.2	18.2	19.5	18.6	19.8	20.2
	6H	18.7	19.8	19.1	20.2	20.6	18.8	20.0	19.2	20.4	20.8
	8H	18.8	20.0	19.3	20.4	20.8	19.1	20.2	19.5	20.6	21.0
	12H	19.0	20.0	19.4	20.4	20.9	19.2	20.3	19.7	20.7	21.1

UGR Viewed Endwise

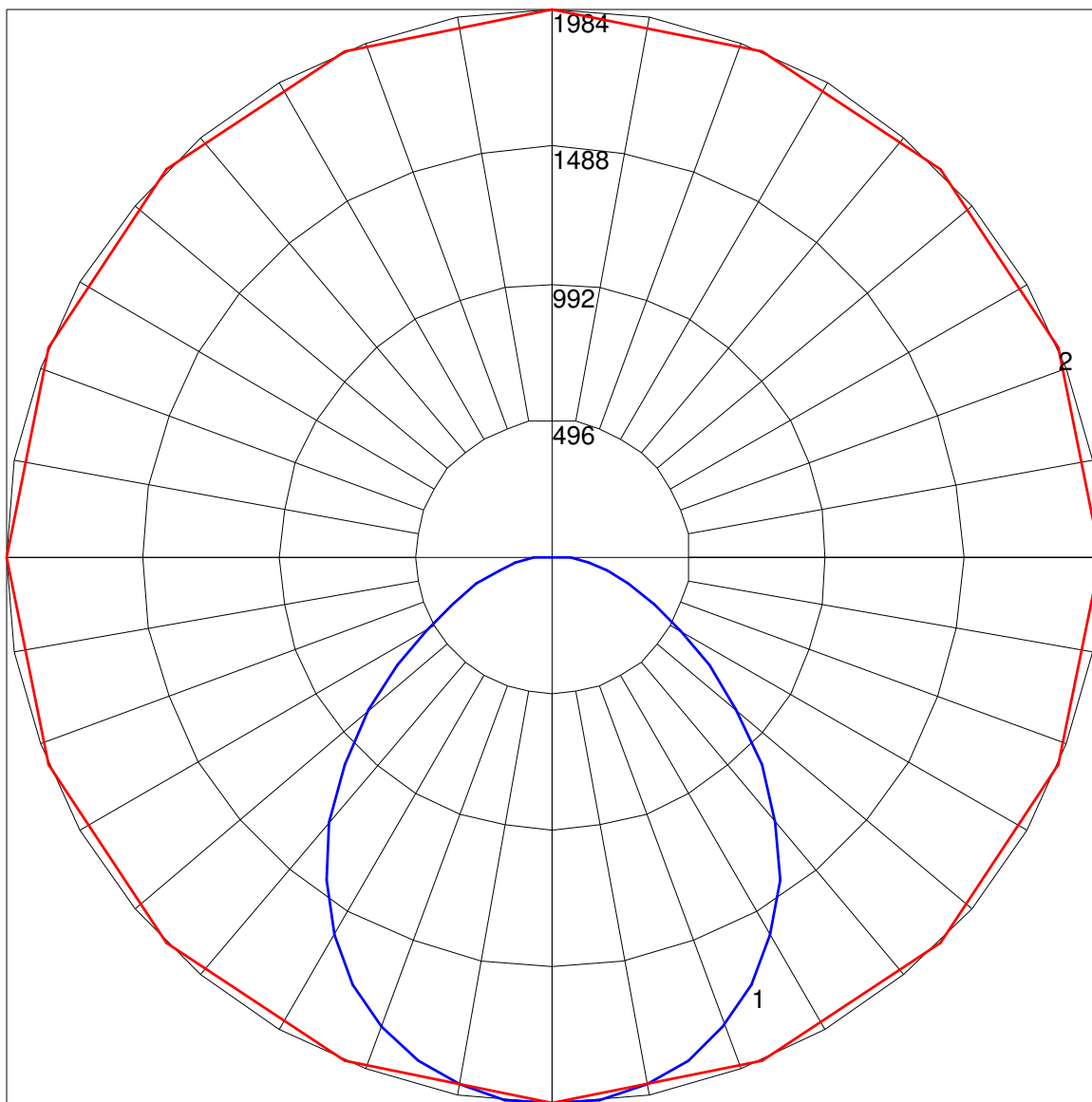
4H	2H	16.7	18.0	17.1	18.3	18.7	16.6	17.9	17.0	18.3	18.7
	3H	18.3	19.4	18.7	19.8	20.2	18.2	19.3	18.6	19.7	20.1
	4H	19.0	20.0	19.4	20.4	20.8	19.0	20.0	19.4	20.4	20.8
	6H	19.6	20.5	20.1	20.9	21.4	19.8	20.6	20.2	21.1	21.5
	8H	19.8	20.6	20.3	21.1	21.5	20.1	20.9	20.6	21.3	21.8
	12H	20.0	20.7	20.5	21.2	21.7	20.4	21.1	20.8	21.5	22.0

8H	4H	19.2	20.0	19.7	20.5	21.0	19.3	20.0	19.7	20.5	21.0
	6H	20.0	20.7	20.5	21.2	21.6	20.2	20.8	20.7	21.3	21.8
	8H	20.3	20.9	20.8	21.4	21.9	20.6	21.2	21.1	21.7	22.2
	12H	20.6	21.1	21.1	21.6	22.2	21.0	21.5	21.5	22.0	22.6

12H	4H	19.3	20.0	19.8	20.5	20.9	19.3	20.0	19.8	20.5	20.9
	6H	20.1	20.7	20.6	21.1	21.7	20.2	20.8	20.8	21.3	21.8
	8H	20.5	21.0	21.0	21.5	22.0	20.7	21.2	21.2	21.7	22.3

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 1983.601 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.)