



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L75-840-SAF12095-(L72)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18561.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 10-AUG-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMINAIRE] 4-56 LED 22"ARRAYS 2x4'RECESSED LED LUMINAIRE
 [MORE] WHITE INTERNAL REFLECTORS w/.095"PAT12 ACRYLIC LENS
 [MORE] 0-10V DIMMING DRIVER
 [LUMCAT] LPT-24-L75-840-SAF12095-(L72)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] INDOOR, OFFICE, DIRECT, CLASSROOM
 [_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7454
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	53
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 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	4167	4117	4052
55	3220	3063	2937
65	2523	2302	2310
75	2083	1974	2233
85	2386	2467	2932

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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	3345.582	3345.582	3345.582	3345.582	3345.582
5	3316.158	3315.068	3313.978	3311.799	3311.799
10	3276.926	3273.657	3272.567	3272.567	3272.567
15	3171.219	3170.129	3170.129	3171.219	3172.309
20	3048.076	3043.717	3043.717	3045.896	3050.255
25	2808.327	2807.237	2807.237	2815.955	2818.135
30	2583.835	2579.476	2582.745	2590.374	2594.733
35	2377.869	2373.510	2373.510	2377.869	2384.408
40	2081.453	2077.094	2073.825	2066.196	2072.735
45	1822.089	1813.371	1800.293	1775.229	1771.960
50	1461.376	1457.017	1424.324	1385.093	1375.285
55	1142.075	1126.818	1086.497	1047.265	1041.816
60	863.095	842.389	803.158	779.183	778.093
65	659.308	634.244	601.551	598.282	603.730
70	476.228	459.881	433.727	459.881	466.420
75	333.468	328.020	316.032	345.456	357.443
80	236.479	229.941	236.479	257.185	272.442
85	128.592	125.323	132.951	156.926	158.016
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : LPT-24-L75-840-SAF12095-(L72)-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1209.84	N.A.	16.20
0-30	2507.00	N.A.	33.60
0-40	3980.14	N.A.	53.40
0-60	6331.55	N.A.	84.90
0-80	7311.43	N.A.	98.10
0-90	7454.04	N.A.	100.00
10-90	7138.79	N.A.	95.80
20-40	2770.3	N.A.	37.20
20-50	4137.05	N.A.	55.50
40-70	2970.08	N.A.	39.80
60-80	979.88	N.A.	13.10
70-80	361.20	N.A.	4.80
80-90	142.61	N.A.	1.90
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	7454.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	315.25
10-20	894.59
20-30	1297.16
30-40	1473.14
40-50	1366.75
50-60	984.67
60-70	618.67
70-80	361.20
80-90	142.61
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	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

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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	15.3	16.9	15.7	17.2	17.5	14.8	16.3	15.1	16.6	16.9
	3H	16.7	18.1	17.1	18.4	18.8	16.3	17.6	16.6	18.0	18.3
	4H	17.2	18.5	17.6	18.9	19.3	16.9	18.2	17.3	18.6	19.0
	6H	17.7	18.9	18.1	19.3	19.7	17.6	18.8	18.0	19.2	19.6
	8H	18.0	19.1	18.4	19.5	19.9	17.9	19.1	18.4	19.5	19.9
	12H	18.1	19.2	18.6	19.6	20.0	18.2	19.3	18.6	19.7	20.1

UGR Viewed Endwise

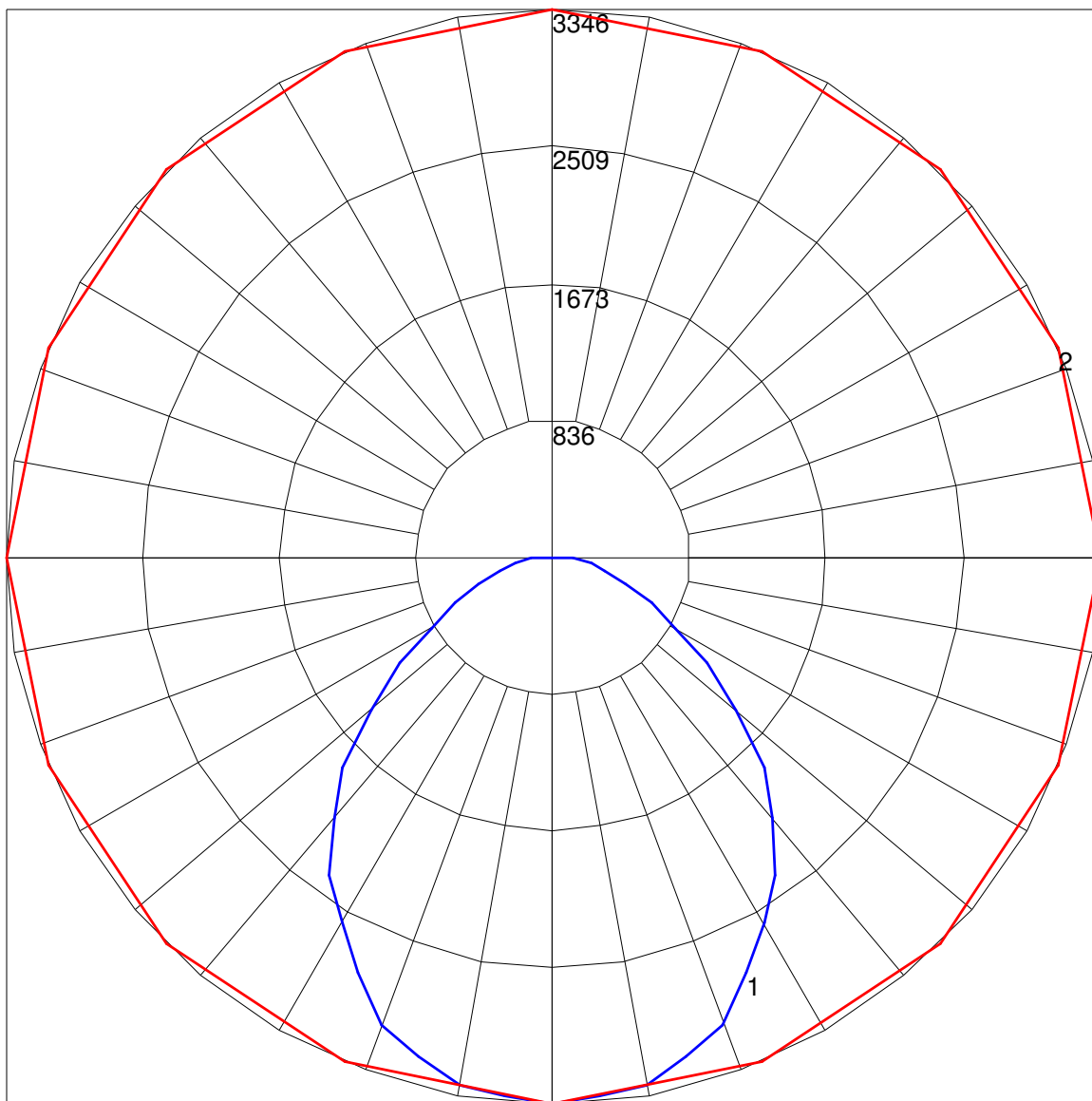
4H	2H	15.7	17.0	16.1	17.3	17.7	15.3	16.5	15.7	16.9	17.3
	3H	17.3	18.4	17.7	18.8	19.2	17.0	18.0	17.4	18.4	18.8
	4H	18.0	19.0	18.4	19.4	19.8	17.8	18.8	18.2	19.2	19.6
	6H	18.7	19.5	19.1	19.9	20.4	18.7	19.5	19.1	20.0	20.4
	8H	18.9	19.7	19.4	20.2	20.6	19.1	19.9	19.5	20.3	20.8
	12H	19.2	19.9	19.7	20.4	20.9	19.4	20.1	19.9	20.6	21.1

8H	4H	18.2	19.0	18.7	19.5	19.9	18.1	18.9	18.5	19.3	19.8
	6H	19.1	19.7	19.6	20.2	20.7	19.1	19.8	19.6	20.3	20.8
	8H	19.5	20.1	20.0	20.6	21.1	19.6	20.2	20.2	20.7	21.2
	12H	19.8	20.4	20.4	20.9	21.4	20.2	20.7	20.7	21.2	21.7

12H	4H	18.3	19.0	18.8	19.5	20.0	18.1	18.8	18.6	19.3	19.8
	6H	19.2	19.8	19.7	20.2	20.8	19.2	19.8	19.7	20.3	20.8
	8H	19.6	20.2	20.1	20.6	21.2	19.8	20.3	20.3	20.8	21.4

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 3345.582 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.)