



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPT-24-L75-950-SAF12095-(L60)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 18560.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 23-JUNE-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4-72 LED 22"ARRAYS 2x4'RECESSED GRID LUMINAIRE

[MORE] WHITE INTERNAL REFLECTORS w/.095"PAT12 ACRYLIC LENS

[LUMCAT] LPT-24-L75-950-SAF12095-(L60)-DIM-UNV

[LAMPCAT] HLM 90 CRI 5000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5554
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	43
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.24
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	2999	2969	2932
55	2369	2255	2184
65	1831	1685	1691
75	1541	1468	1662
85	1689	1761	2093

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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	2540.105	2540.105	2540.105	2540.105	2540.105
5	2512.876	2509.764	2505.874	2505.874	2509.764
10	2456.861	2455.305	2456.861	2456.861	2456.861
15	2383.731	2382.175	2382.175	2383.731	2386.843
20	2274.814	2274.814	2277.926	2279.482	2284.150
25	2137.111	2137.111	2144.113	2145.669	2150.337
30	1958.176	1955.064	1958.176	1964.400	1971.402
35	1784.686	1781.574	1781.574	1788.576	1796.356
40	1559.850	1556.738	1556.738	1553.626	1555.182
45	1311.674	1305.451	1298.449	1282.111	1282.111
50	1068.945	1060.387	1044.049	1015.264	1012.930
55	840.218	825.437	799.764	776.424	774.868
60	648.057	630.164	603.713	587.375	587.375
65	478.458	463.676	440.337	438.781	441.893
70	349.313	337.643	319.750	337.643	344.645
75	246.620	241.174	234.950	257.511	266.069
80	172.712	168.044	171.156	185.937	199.163
85	91.024	87.912	94.914	111.251	112.807
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	909.20	N.A.	16.40
0-30	1892.11	N.A.	34.10
0-40	3001.3	N.A.	54.00
0-60	4728.35	N.A.	85.10
0-80	5451.41	N.A.	98.20
0-90	5553.72	N.A.	100.00
10-90	5315.77	N.A.	95.70
20-40	2092.1	N.A.	37.70
20-50	3092.15	N.A.	55.70
40-70	2183.94	N.A.	39.30
60-80	723.06	N.A.	13.00
70-80	266.18	N.A.	4.80
80-90	102.31	N.A.	1.80
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	5553.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	237.95
10-20	671.25
20-30	982.91
30-40	1109.19
40-50	1000.05
50-60	727.00
60-70	456.89
70-80	266.18
80-90	102.31
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	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

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UGR TABLE - CORRECTED

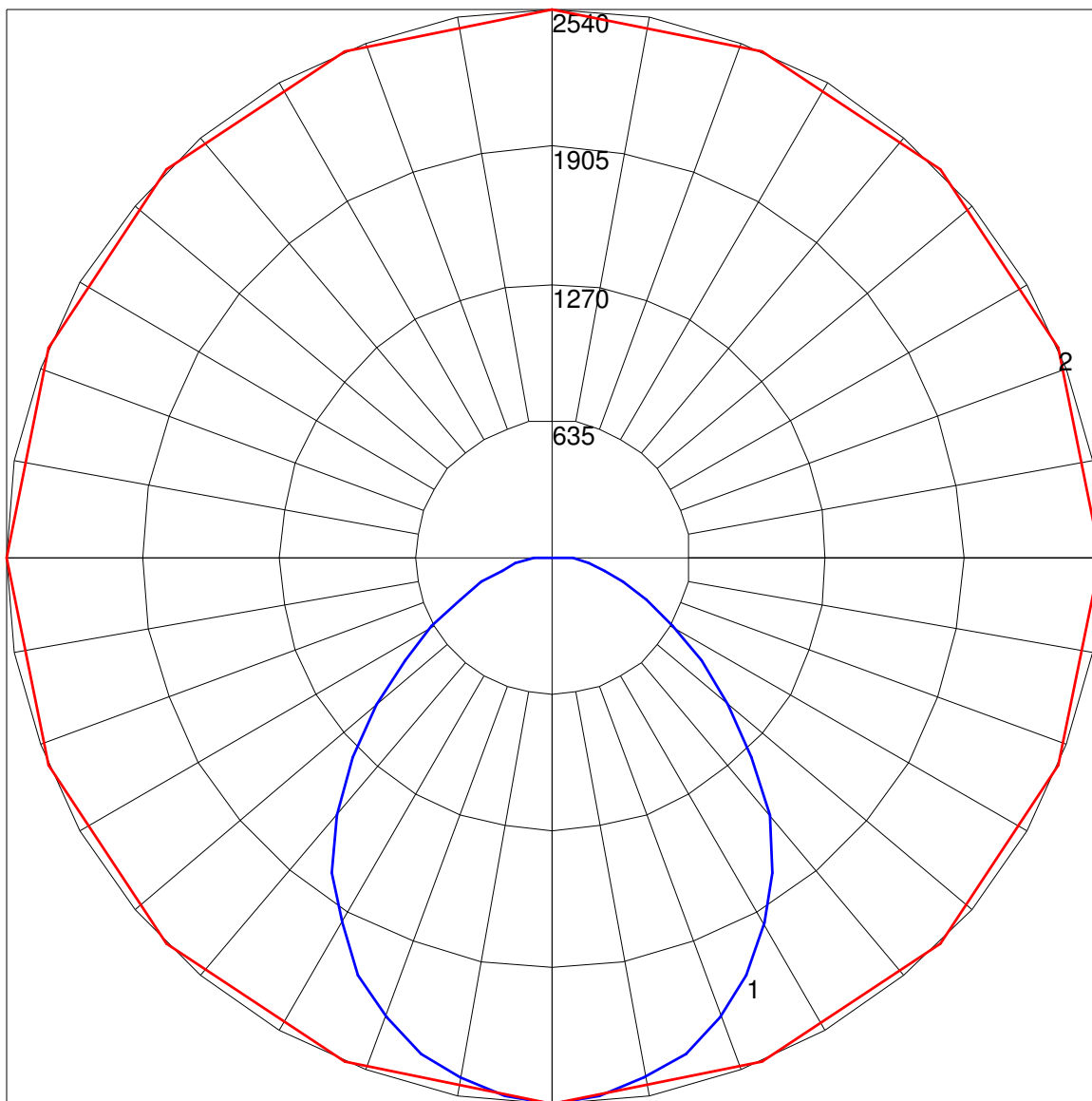
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.3	15.8	14.7	16.1	16.4	13.8	15.3	14.2	15.6	16.0
	3H	15.6	17.0	16.0	17.3	17.7	15.3	16.6	15.6	16.9	17.3
	4H	16.2	17.5	16.6	17.8	18.2	15.9	17.2	16.3	17.6	17.9
	6H	16.7	17.9	17.1	18.2	18.6	16.6	17.8	17.0	18.1	18.5
	8H	16.9	18.0	17.3	18.4	18.8	16.9	18.0	17.3	18.4	18.8
	12H	17.0	18.1	17.5	18.5	18.9	17.2	18.2	17.6	18.6	19.0
4H	2H	14.7	15.9	15.1	16.3	16.7	14.3	15.5	14.7	15.9	16.3
	3H	16.2	17.3	16.6	17.7	18.1	15.9	17.0	16.3	17.4	17.8
	4H	16.9	17.9	17.4	18.3	18.7	16.8	17.7	17.2	18.2	18.6
	6H	17.6	18.4	18.0	18.9	19.3	17.6	18.5	18.1	18.9	19.4
	8H	17.9	18.6	18.3	19.1	19.6	18.0	18.8	18.5	19.2	19.7
	12H	18.1	18.8	18.6	19.3	19.7	18.3	19.1	18.8	19.5	20.0
8H	4H	17.2	18.0	17.6	18.4	18.9	17.0	17.8	17.5	18.3	18.7
	6H	18.0	18.6	18.5	19.1	19.6	18.1	18.7	18.6	19.2	19.7
	8H	18.4	19.0	18.9	19.5	19.9	18.6	19.2	19.1	19.7	20.1
	12H	18.7	19.2	19.2	19.7	20.3	19.1	19.6	19.6	20.1	20.6
12H	4H	17.2	17.9	17.7	18.4	18.9	17.1	17.8	17.6	18.3	18.7
	6H	18.1	18.7	18.6	19.1	19.7	18.1	18.7	18.7	19.2	19.7
	8H	18.5	19.0	19.0	19.5	20.1	18.7	19.2	19.2	19.7	20.3

Maximum UGR = 20.6

POLAR GRAPH



Maximum Candela = 2540.105 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.)