



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-24-L61-B35T-RA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 19235.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 5-MAY-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2x4 SURFACE LED LUMINAIRE
 [MORE] WHITE REFLECTOR w/RIBBED FROSTED ACRYLIC CENTER DIFFUSER
 [LUMCAT] PTS-24-L61-B35T-RA-DIM-UNV
 [LAMPCAT] BIOS LED MODULES
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor, Architectural, Office, Direct
 [SEARCH_MOUNTING] Surface

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6129
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	48.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2628	2773	2915
55	2356	2579	2785
65	2071	2454	2788
75	1603	2461	3047
85	968	3229	3700

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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	2344.822	2344.822	2344.822	2344.822	2344.822
5	2309.017	2305.834	2305.834	2297.878	2293.899
10	2301.856	2301.856	2305.834	2309.017	2309.017
15	2241.386	2244.568	2248.546	2254.116	2258.094
20	2093.392	2101.349	2110.897	2123.627	2127.606
25	1974.838	1981.999	2001.095	2017.804	2025.761
30	1730.569	1677.260	1895.272	1832.414	1822.866
35	1596.102	1611.220	1647.025	1677.260	1689.195
40	1420.260	1439.356	1479.139	1518.923	1534.040
45	1297.728	1314.437	1369.338	1420.260	1439.356
50	1127.456	1153.713	1214.183	1267.493	1285.793
55	943.658	972.301	1032.772	1093.242	1115.521
60	769.407	799.642	868.069	930.131	953.205
65	611.070	650.853	724.054	796.460	822.717
70	450.346	497.290	584.017	660.401	686.658
75	289.622	347.705	444.776	521.956	550.599
80	159.133	234.721	346.114	421.702	444.776
85	58.879	134.467	196.529	221.195	225.173
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	849.99	N.A.	13.90
0-30	1761.61	N.A.	28.70
0-40	2789.24	N.A.	45.50
0-60	4763.42	N.A.	77.70
0-80	5945.86	N.A.	97.00
0-90	6129.16	N.A.	100.00
10-90	5908.74	N.A.	96.40
20-40	1939.25	N.A.	31.60
20-50	2987.41	N.A.	48.70
40-70	2689.02	N.A.	43.90
60-80	1182.44	N.A.	19.30
70-80	467.60	N.A.	7.60
80-90	183.29	N.A.	3.00
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	6129.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	220.41
10-20	629.58
20-30	911.61
30-40	1027.64
40-50	1048.16
50-60	926.02
60-70	714.84
70-80	467.60
80-90	183.29
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	149	149	149	149	145	145	145	145	139	139	139	133	133	133	128	128	128	125
1	135	129	124	119	132	126	121	117	121	117	113	116	113	110	112	109	106	104
2	123	113	104	97	120	110	102	95	106	99	93	102	96	91	98	93	89	86
3	112	99	89	80	109	97	87	80	93	85	78	90	83	77	87	81	76	73
4	103	88	77	68	100	86	76	68	83	74	67	80	72	66	77	71	65	62
5	95	79	67	59	92	77	67	59	75	65	58	72	64	57	70	63	57	54
6	88	71	60	52	85	70	59	51	68	58	51	65	57	51	63	56	50	48
7	81	64	54	46	79	63	53	46	62	52	45	60	51	45	58	50	45	42
8	76	59	48	41	74	58	48	41	56	47	41	55	47	40	53	46	40	38
9	71	54	44	37	69	53	44	37	52	43	37	51	42	37	49	42	36	34
10	67	50	40	34	65	49	40	34	48	39	33	47	39	33	46	39	33	31

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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	13.8	15.5	14.2	15.8	16.1	14.9	16.5	15.2	16.8	17.1
	3H	15.5	17.0	15.9	17.3	17.7	17.0	18.5	17.4	18.9	19.2
	4H	16.1	17.5	16.5	17.8	18.2	18.0	19.4	18.4	19.8	20.2
	6H	16.4	17.8	16.9	18.1	18.5	19.1	20.4	19.5	20.7	21.1
	8H	16.6	17.8	17.0	18.2	18.6	19.5	20.7	19.9	21.1	21.5
	12H	16.6	17.8	17.1	18.2	18.6	19.8	21.0	20.3	21.4	21.8

UGR Viewed Endwise

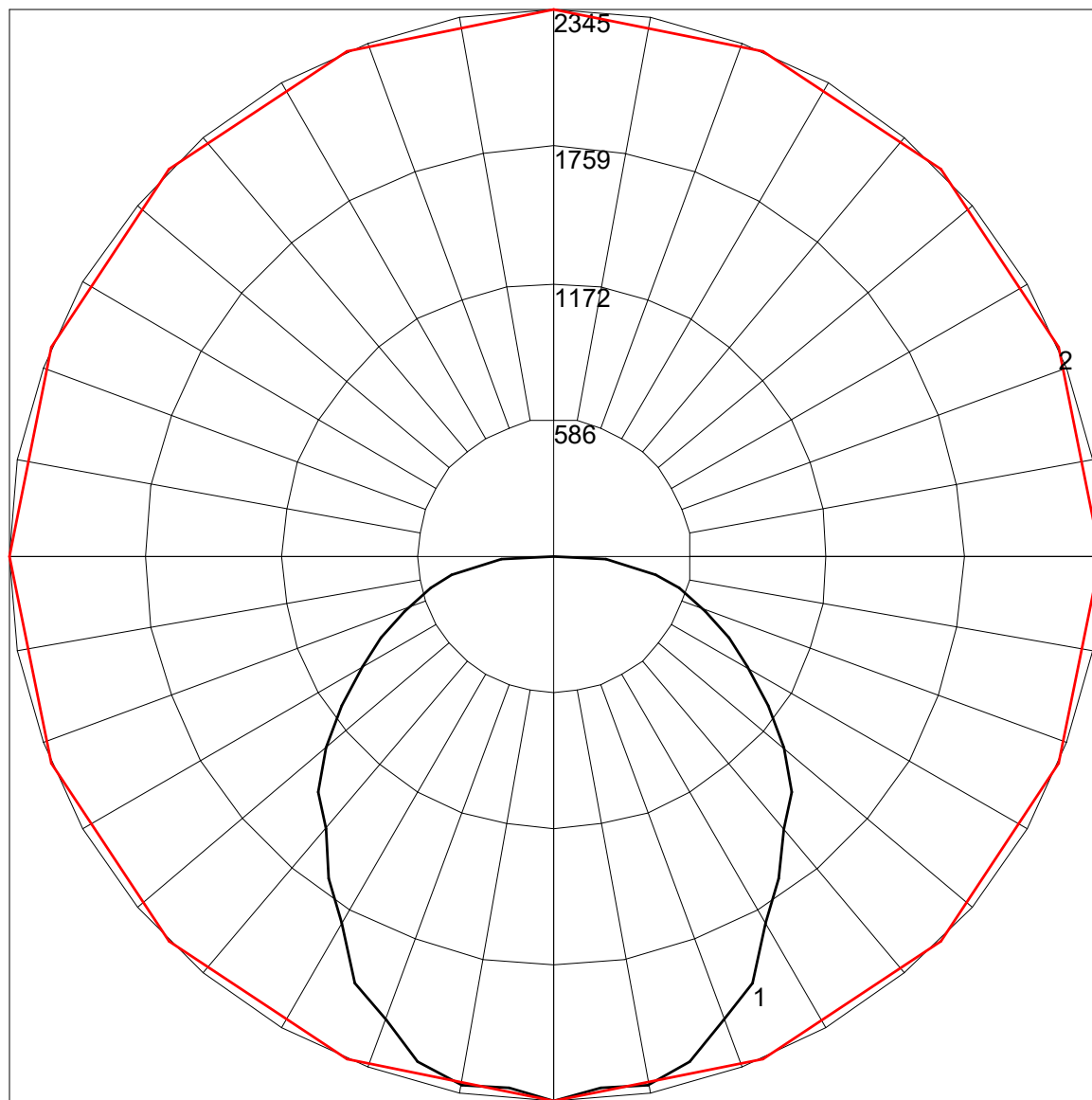
4H	2H	14.6	16.0	15.0	16.4	16.8	15.4	16.8	15.8	17.2	17.5
	3H	16.5	17.7	17.0	18.1	18.5	17.9	19.1	18.3	19.4	19.8
	4H	17.2	18.3	17.7	18.7	19.2	19.0	20.1	19.5	20.5	21.0
	6H	17.8	18.7	18.2	19.2	19.6	20.3	21.2	20.7	21.7	22.1
	8H	17.9	18.8	18.4	19.3	19.7	20.8	21.7	21.3	22.1	22.6
	12H	18.1	18.9	18.6	19.3	19.8	21.2	22.0	21.7	22.5	23.0

8H	4H	17.8	18.7	18.3	19.2	19.6	19.4	20.3	19.8	20.7	21.2
	6H	18.6	19.3	19.1	19.8	20.3	20.8	21.6	21.3	22.1	22.5
	8H	18.9	19.5	19.4	20.0	20.5	21.5	22.2	22.0	22.7	23.1
	12H	19.1	19.7	19.6	20.2	20.7	22.1	22.6	22.6	23.1	23.7

12H	4H	18.0	18.8	18.5	19.3	19.7	19.4	20.2	19.9	20.7	21.2
	6H	18.8	19.5	19.4	20.0	20.5	20.9	21.6	21.5	22.1	22.6
	8H	19.2	19.8	19.7	20.3	20.9	21.7	22.2	22.2	22.7	23.3

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 2344.822 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)