



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTDC-24-L61-850-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
[ISSUEDATE] 2022-05-06
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2x4' RECESSED LED LUMINAIRE
[MORE] w/RIBBED FROSTED ACRYLIC CENTER DIFFUSER
[LUMCAT] PTDC-24-L61-850-RA-DIM-UNV
[LAMPCAT] HLM 80 CRI 5000K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Architectural, Office, Direct
[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6423
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	48.5
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	2754	2906	3055
55	2469	2702	2919
65	2170	2571	2922
75	1679	2579	3193
85	1014	3384	3877

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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	2457.124	2457.124	2457.124	2457.124	2457.124
5	2419.604	2416.269	2416.269	2407.931	2403.762
10	2412.100	2412.100	2416.269	2419.604	2419.604
15	2348.734	2352.069	2356.237	2362.074	2366.243
20	2193.652	2201.990	2211.995	2225.335	2229.504
25	2069.420	2076.924	2096.935	2114.444	2122.782
30	1813.452	1757.590	1986.043	1920.175	1910.170
35	1672.545	1688.387	1725.906	1757.590	1770.096
40	1488.282	1508.292	1549.981	1591.669	1607.511
45	1359.881	1377.390	1434.920	1488.282	1508.292
50	1181.454	1208.968	1272.335	1328.198	1347.374
55	988.853	1018.868	1082.235	1145.602	1168.947
60	806.257	837.940	909.644	974.679	998.858
65	640.336	682.025	758.732	834.605	862.119
70	471.915	521.107	611.988	692.030	719.545
75	303.493	364.358	466.078	546.954	576.970
80	166.754	245.963	362.690	441.899	466.078
85	61.699	140.907	205.941	231.788	235.957
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	890.70	N.A.	13.90
0-30	1845.98	N.A.	28.70
0-40	2922.83	N.A.	45.50
0-60	4991.56	N.A.	77.70
0-80	6230.63	N.A.	97.00
0-90	6422.7	N.A.	100.00
10-90	6191.73	N.A.	96.40
20-40	2032.13	N.A.	31.60
20-50	3130.49	N.A.	48.70
40-70	2817.81	N.A.	43.90
60-80	1239.07	N.A.	19.30
70-80	489.99	N.A.	7.60
80-90	192.07	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	6422.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	230.97
10-20	659.73
20-30	955.27
30-40	1076.85
40-50	1098.36
50-60	970.37
60-70	749.07
70-80	489.99
80-90	192.07
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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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UGR TABLE - CORRECTED

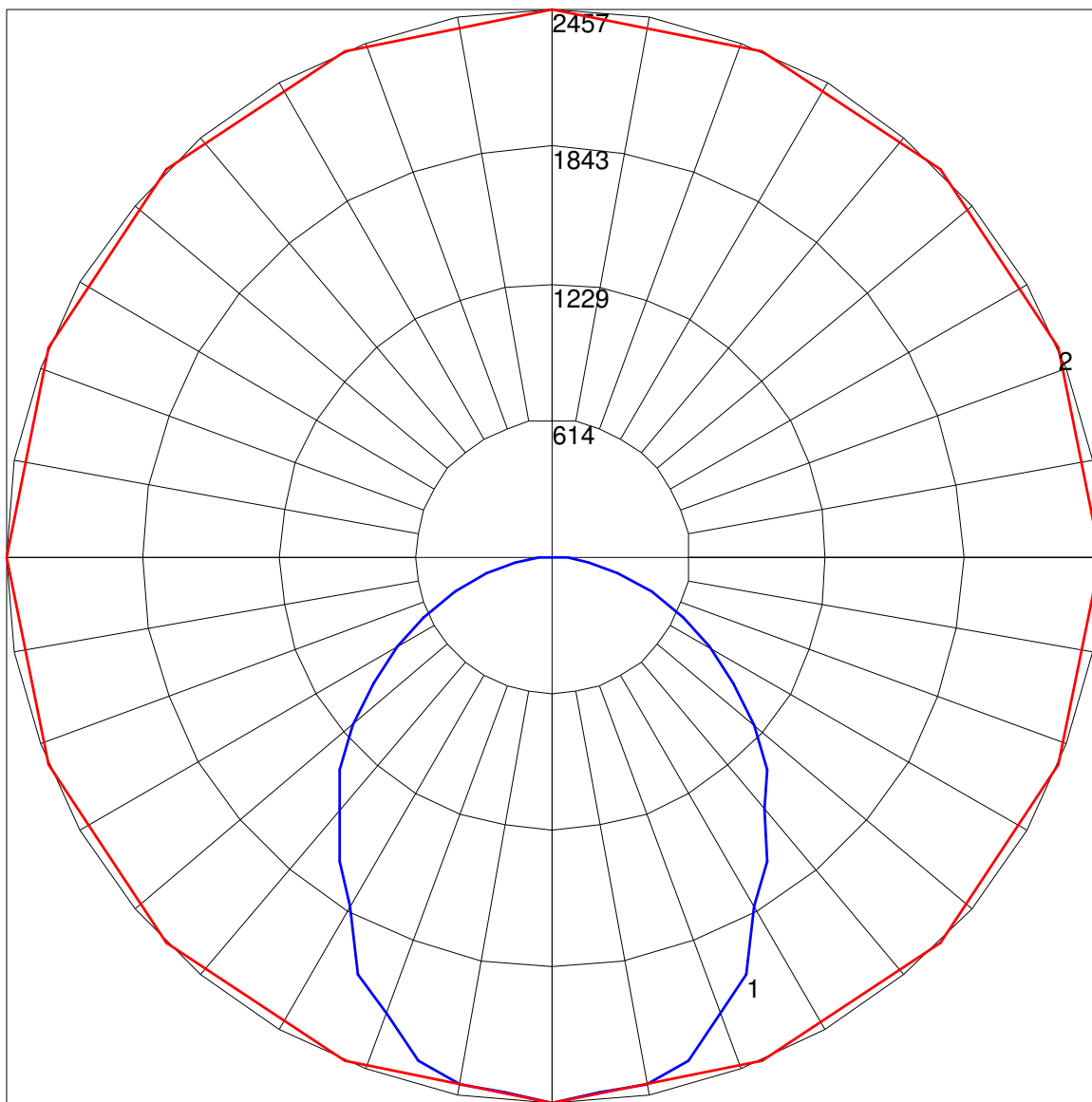
Reflectances

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	14.9	16.5	15.2	16.8	17.1	15.9	17.5	16.2	17.8	18.1
	3H	16.5	18.0	16.9	18.3	18.7	18.0	19.5	18.4	19.9	20.2
	4H	17.1	18.5	17.5	18.8	19.2	19.0	20.4	19.4	20.8	21.2
	6H	17.4	18.8	17.9	19.1	19.5	20.1	21.4	20.5	21.7	22.1
	8H	17.6	18.8	18.0	19.2	19.6	20.5	21.7	20.9	22.1	22.5
	12H	17.6	18.8	18.1	19.2	19.6	20.8	22.0	21.3	22.4	22.8
4H	2H	15.6	17.0	16.0	17.4	17.8	16.4	17.8	16.8	18.2	18.5
	3H	17.5	18.7	18.0	19.1	19.5	18.9	20.1	19.3	20.5	20.9
	4H	18.2	19.3	18.7	19.7	20.2	20.0	21.1	20.5	21.5	22.0
	6H	18.8	19.7	19.2	20.2	20.6	21.3	22.2	21.7	22.7	23.1
	8H	18.9	19.8	19.4	20.3	20.7	21.8	22.7	22.3	23.1	23.6
	12H	19.1	19.9	19.6	20.3	20.8	22.2	23.0	22.7	23.5	24.0
8H	4H	18.8	19.7	19.3	20.2	20.6	20.4	21.3	20.8	21.7	22.2
	6H	19.6	20.3	20.1	20.8	21.3	21.8	22.6	22.3	23.1	23.5
	8H	19.9	20.5	20.4	21.0	21.5	22.5	23.2	23.0	23.7	24.1
	12H	20.1	20.7	20.6	21.2	21.7	23.1	23.6	23.6	24.1	24.7
12H	4H	19.0	19.8	19.5	20.3	20.7	20.4	21.2	20.9	21.7	22.2
	6H	19.8	20.5	20.4	21.0	21.5	21.9	22.6	22.5	23.1	23.6
	8H	20.2	20.8	20.7	21.3	21.9	22.7	23.2	23.2	23.7	24.3

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 2457.124 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.)