



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTDC-24-L61-835-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-L61-835-RA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K 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	6059
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	2598	2742	2882
55	2329	2549	2754
65	2047	2426	2756
75	1584	2433	3012
85	956	3192	3658

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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	2318.041	2318.041	2318.041	2318.041	2318.041
5	2282.645	2279.499	2279.499	2271.633	2267.700
10	2275.566	2275.566	2279.499	2282.645	2282.645
15	2215.786	2218.933	2222.866	2228.372	2232.304
20	2069.483	2077.349	2086.788	2099.373	2103.306
25	1952.283	1959.362	1978.240	1994.758	2002.624
30	1710.804	1658.104	1873.626	1811.486	1802.047
35	1577.873	1592.818	1628.214	1658.104	1669.902
40	1404.039	1422.917	1462.246	1501.575	1516.520
45	1282.906	1299.425	1353.698	1404.039	1422.917
50	1114.579	1140.536	1200.316	1253.017	1271.108
55	932.880	961.197	1020.976	1080.756	1102.780
60	760.620	790.510	858.155	919.508	942.319
65	604.091	643.420	715.785	787.363	813.320
70	445.202	491.610	577.347	652.859	678.816
75	286.314	343.734	439.696	515.994	544.311
80	157.315	232.040	342.161	416.886	439.696
85	58.207	132.931	194.284	218.668	222.601
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	840.29	N.A.	13.90
0-30	1741.49	N.A.	28.70
0-40	2757.39	N.A.	45.50
0-60	4709.02	N.A.	77.70
0-80	5877.95	N.A.	97.00
0-90	6059.15	N.A.	100.00
10-90	5841.26	N.A.	96.40
20-40	1917.1	N.A.	31.60
20-50	2953.29	N.A.	48.70
40-70	2658.31	N.A.	43.90
60-80	1168.93	N.A.	19.30
70-80	462.26	N.A.	7.60
80-90	181.20	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	6059.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	217.90
10-20	622.39
20-30	901.20
30-40	1015.9
40-50	1036.19
50-60	915.45
60-70	706.67
70-80	462.26
80-90	181.20
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

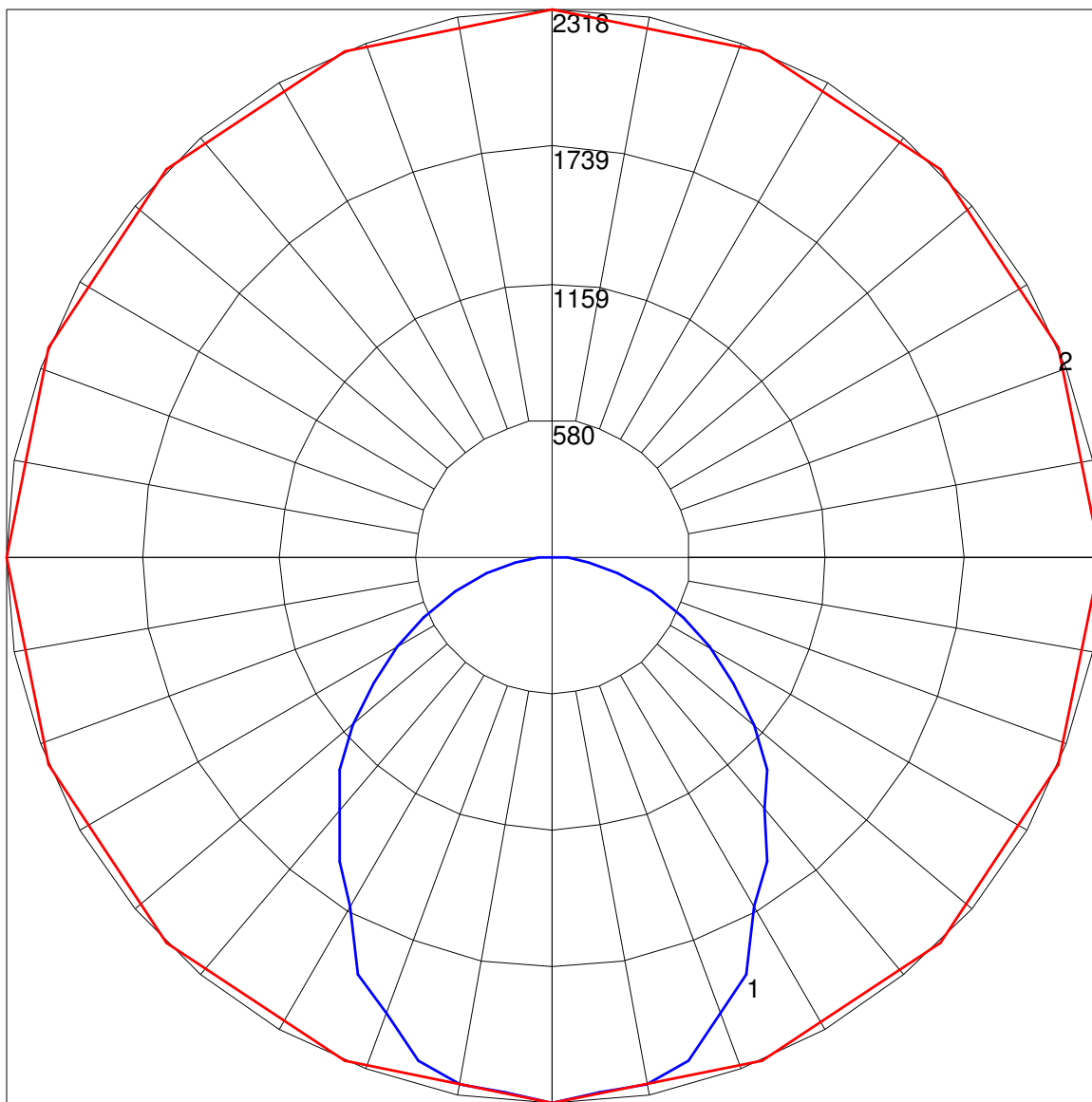
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UGR TABLE - CORRECTED

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	14.6	16.3	15.0	16.6	16.9	15.7	17.3	16.0	17.6	17.9
	3H	16.3	17.8	16.7	18.1	18.5	17.8	19.3	18.2	19.7	20.0
	4H	16.9	18.3	17.3	18.6	19.0	18.8	20.2	19.2	20.6	21.0
	6H	17.2	18.6	17.7	18.9	19.3	19.9	21.2	20.3	21.5	21.9
	8H	17.4	18.6	17.8	19.0	19.4	20.3	21.5	20.7	21.9	22.3
	12H	17.4	18.6	17.9	19.0	19.4	20.6	21.8	21.1	22.2	22.6
4H	2H	15.4	16.8	15.8	17.2	17.6	16.2	17.6	16.6	18.0	18.3
	3H	17.3	18.5	17.8	18.9	19.3	18.7	19.9	19.1	20.3	20.6
	4H	18.0	19.1	18.5	19.5	20.0	19.8	20.9	20.3	21.3	21.8
	6H	18.6	19.5	19.0	20.0	20.4	21.1	22.0	21.5	22.5	22.9
	8H	18.7	19.6	19.2	20.1	20.5	21.6	22.5	22.1	22.9	23.4
	12H	18.9	19.7	19.4	20.1	20.6	22.0	22.8	22.5	23.3	23.8
8H	4H	18.6	19.5	19.1	20.0	20.4	20.2	21.1	20.6	21.5	22.0
	6H	19.4	20.1	19.9	20.6	21.1	21.6	22.4	22.1	22.9	23.3
	8H	19.7	20.3	20.2	20.8	21.3	22.3	23.0	22.8	23.5	23.9
	12H	19.9	20.5	20.4	21.0	21.5	22.9	23.4	23.4	23.9	24.5
12H	4H	18.8	19.6	19.3	20.1	20.5	20.2	21.0	20.7	21.5	22.0
	6H	19.6	20.3	20.2	20.8	21.3	21.7	22.4	22.3	22.9	23.4
	8H	20.0	20.6	20.5	21.1	21.7	22.5	23.0	23.0	23.5	24.1

Maximum UGR = 24.5

POLAR GRAPH



Maximum Candela = 2318.041 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.)