IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-14-L61-835-RA-(L48)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19323.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 06-28-2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 1x4'RECESSED LED LUMINAIRE
[MORE] WHITE REFLECTOR w/WHITE RIBBED ACRYLIC LENS
[MORE] 0-10V LED DRIVER
[LUMCAT] PT-14-L61-835-RA-(L48)-DIM-UNV
[LAMPCAT] 22" LED ARRAYS
[_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	4989
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	34.45
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.94 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4669	4877	4948
55	4121	4528	4720
65	3586	4250	4360
75	2606	3650	3805
85	1187	1954	2298

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1818.123	1818.123	1818.123	1818.123	1818.123
5	1859.185	1845.497	1838.654	1821.545	1811.279
10	1827.248	1816.982	1813.560	1795.311	1786.186
15	1777.061	1767.936	1772.499	1750.827	1750.827
20	1705.203	1701.781	1709.765	1689.235	1696.078
25	1625.361	1617.376	1633.345	1618.517	1613.955
30	1531.831	1517.003	1539.815	1531.831	1529.550
35	1414.349	1402.943	1432.599	1426.896	1433.739
40	1277.477	1275.195	1307.132	1311.695	1305.992
45	1128.057	1131.479	1178.244	1188.509	1195.353
50	969.513	986.622	1035.668	1060.762	1060.762
55	807.548	839.485	887.390	936.436	925.030
60	661.550	688.925	745.955	785.876	780.173
65	517.834	541.787	613.645	642.160	629.613
70	369.556	414.039	473.351	487.038	481.335
75	230.402	289.713	322.791	336.478	336.478
80	117.482	172.231	184.778	195.043	187.059
85	35.359	67.296	58.171	63.874	68.436
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	671.39	N.A.	13.50
0-30	1418.76	N.A.	28.40
0-40	2306.87	N.A.	46.20
0-60	3993.64	N.A.	80.00
0-80	4908.28	N.A.	98.40
0-90	4989.03	N.A.	100.00
10-90	4815.02	N.A.	96.50
20-40	1635.48	N.A.	32.80
20-50	2533.66	N.A.	50.80
40-70	2273.7	N.A.	45.60
60-80	914.64	N.A.	18.30
70-80	327.70	N.A.	6.60
80-90	80.75	N.A.	1.60
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	4989.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	174.01
10-20	497.38
20-30	747.37
30-40	888.11
40-50	898.18
50-60	788.58
60-70	586.94
70-80	327.70
80-90	80.75
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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	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	16.9	18.5	17.2	18.8	19.1	17.7	19.3	18.1	19.7	20.0
	3H	18.4	19.9	18.8	20.2	20.6	19.5	21.0	19.9	21.3	21.7
	4H	18.9	20.3	19.3	20.7	21.0	20.2	21.5	20.6	21.9	22.3
	6H	19.2	20.5	19.7	20.9	21.3	20.6	21.9	21.0	22.2	22.6
	8H	19.3	20.5	19.7	20.9	21.3	20.7	21.9	21.1	22.3	22.7
	12H	19.3	20.5	19.8	20.9	21.3	20.8	22.0	21.2	22.3	22.8
4H	2H	17.6	19.0	18.0	19.3	19.7	18.3	19.7	18.7	20.0	20.4
	3H	19.4	20.6	19.8	21.0	21.4	20.3	21.5	20.7	21.9	22.3
	4H	20.1	21.1	20.5	21.5	22.0	21.1	22.1	21.5	22.6	23.0
	6H	20.5	21.4	21.0	21.9	22.3	21.7	22.6	22.1	23.0	23.5
	8H	20.6	21.5	21.1	21.9	22.4	21.8	22.7	22.3	23.1	23.6
	12H	20.7	21.5	21.2	21.9	22.4	21.9	22.7	22.4	23.2	23.7
8H	4H	20.5	21.3	20.9	21.8	22.2	21.4	22.2	21.8	22.7	23.1
	6H	21.1	21.8	21.5	22.2	22.7	22.1	22.8	22.6	23.3	23.7
	8H	21.2	21.9	21.7	22.4	22.9	22.3	22.9	22.8	23.4	23.9
	12H	21.4	21.9	21.9	22.4	23.0	22.4	23.0	22.9	23.5	24.1
12H	4H	20.5	21.3	21.0	21.8	22.2	21.4	22.2	21.9	22.6	23.1
	6H	21.1	21.8	21.6	22.2	22.8	22.1	22.7	22.6	23.2	23.7
	8H	21.4	21.9	21.9	22.4	23.0	22.4	22.9	22.9	23.4	24.0

Maximum UGR = 24.1

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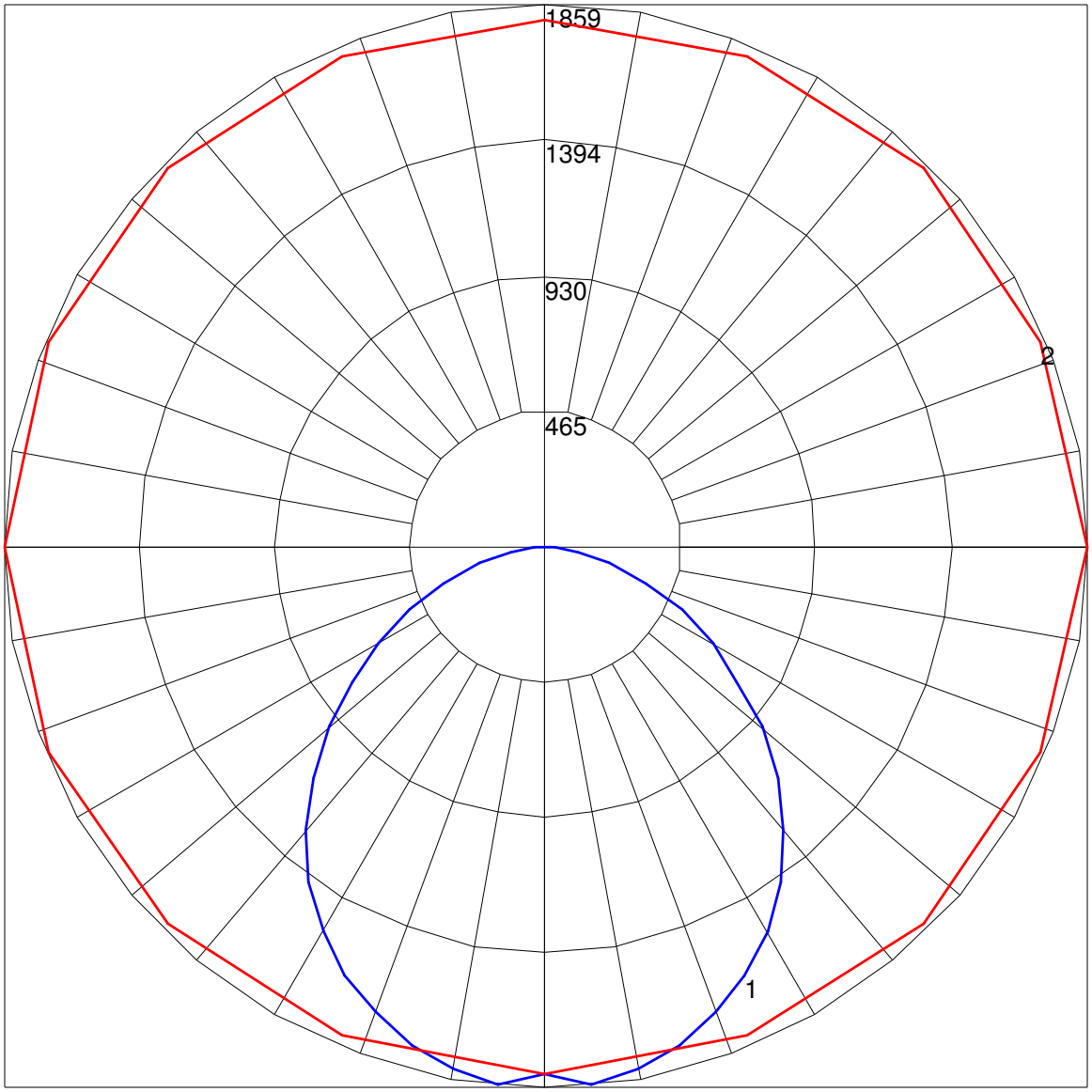
POLAR GRAPH



Maximum Candela = 1859.185 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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