



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-4-L63-840-(L50)-EM10W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18635.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 02-24-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 4-32 LED 22" ARRAYS 4' INDUSTRIAL LUMINAIRE
 [MORE] WHITE REFLECTOR w/OPEN BOTTOM
 [LUMCAT] 80-4-L63-840-(L50)-EM10W-DIM-UNV (EMER MODE)
 [LAMPCAT] 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1590
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1725	1683	1679
55	1662	1626	1619
65	1583	1548	828
75	1273	707	135
85	572	250	188

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	597.517	597.517	597.517	597.517	597.517
5	590.419	588.391	586.617	588.898	591.433
10	578.504	576.476	585.603	587.124	581.293
15	565.068	570.899	564.561	559.998	559.998
20	548.083	560.759	542.760	539.971	539.971
25	526.028	528.817	519.944	518.423	518.423
30	497.889	493.579	490.284	488.509	488.002
35	467.975	463.665	459.863	459.356	458.342
40	435.019	427.921	425.893	425.132	424.625
45	396.993	388.881	387.360	386.853	386.346
50	352.629	346.798	345.024	344.517	344.517
55	310.293	303.956	303.449	302.181	302.181
60	262.127	257.310	256.803	255.789	255.029
65	217.763	213.453	212.946	164.019	113.825
70	166.301	162.498	130.049	88.221	89.995
75	107.234	107.234	59.574	51.462	11.408
80	56.786	36.759	10.394	8.619	8.619
85	16.224	8.619	7.098	5.324	5.324
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	215.69	N.A.	13.60
0-30	456.11	N.A.	28.70
0-40	744.70	N.A.	46.80
0-60	1315.33	N.A.	82.70
0-80	1579.76	N.A.	99.30
0-90	1590.11	N.A.	100.00
10-90	1534.04	N.A.	96.50
20-40	529.01	N.A.	33.30
20-50	828.58	N.A.	52.10
40-70	759.18	N.A.	47.70
60-80	264.43	N.A.	16.60
70-80	75.88	N.A.	4.80
80-90	10.35	N.A.	0.70
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	1590.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.07
10-20	159.62
20-30	240.42
30-40	288.59
40-50	299.57
50-60	271.06
60-70	188.55
70-80	75.88
80-90	10.35
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	99	96	99	96	93	95	92	90	91	89	88	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	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

X=2H	Y=2H	14.1	15.7	14.5	16.0	16.3	UGR Viewed Endwise			
	3H	16.0	17.4	16.4	17.8	18.1	14.0	15.6	14.4	16.0
	4H	16.6	18.0	17.0	18.3	18.7	14.7	16.2	15.1	16.5
	6H	17.0	18.2	17.4	18.6	19.0	14.8	16.1	15.2	16.5
	8H	17.0	18.2	17.5	18.6	19.0	14.7	16.0	15.1	16.4
	12H	17.1	18.2	17.5	18.6	19.0	14.7	15.9	15.1	16.3

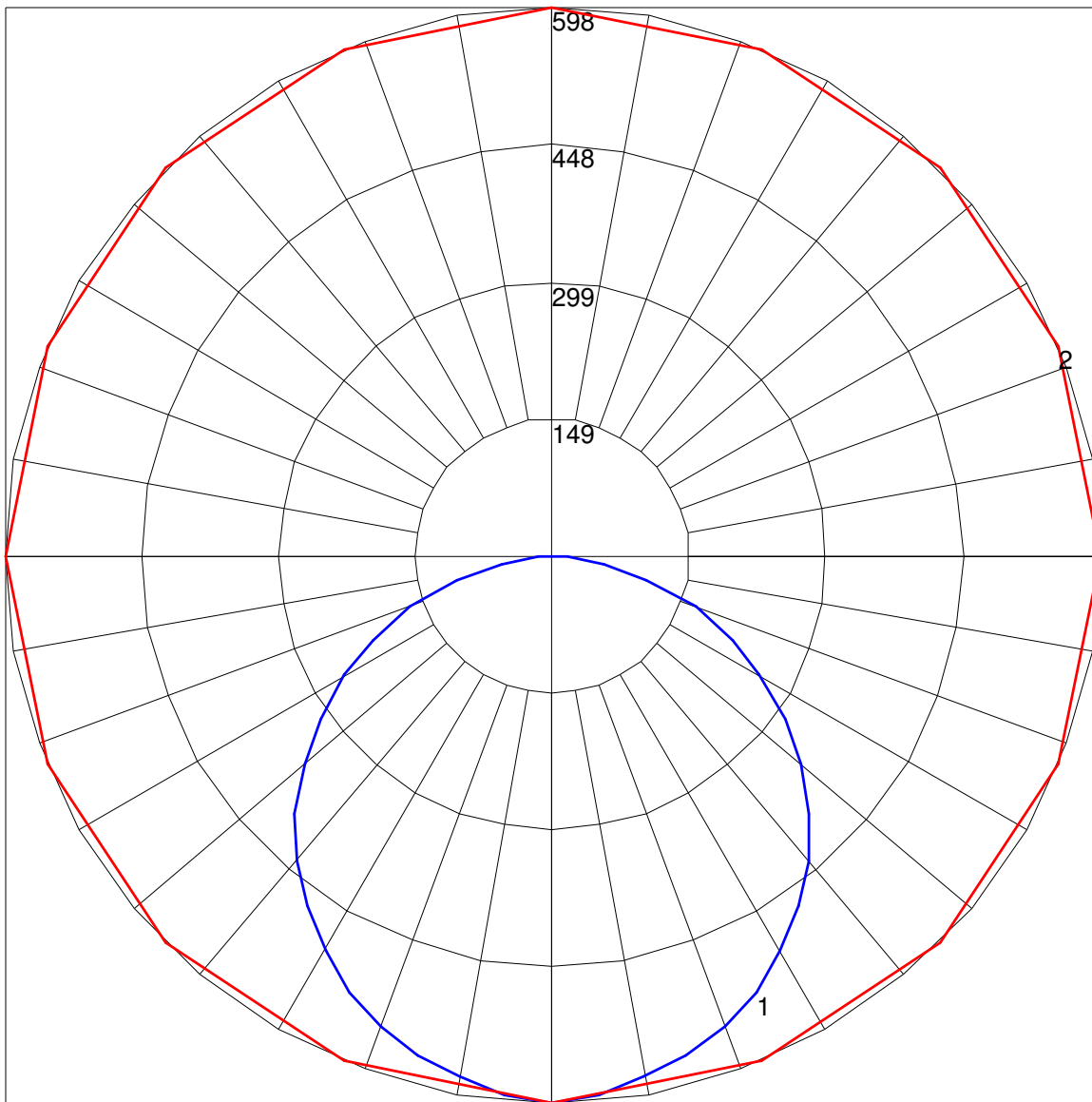
4H	2H	14.8	16.1	15.2	16.5	16.9	14.7	16.1	15.1	16.4
	3H	16.8	17.9	17.2	18.3	18.7	15.5	16.7	16.0	17.1
	4H	17.5	18.5	17.9	18.9	19.4	15.7	16.7	16.1	17.1
	6H	17.9	18.8	18.4	19.2	19.7	15.6	16.5	16.1	17.0
	8H	18.0	18.8	18.5	19.3	19.7	15.6	16.5	16.1	16.9
	12H	18.1	18.8	18.5	19.3	19.7	15.6	16.3	16.1	16.8

8H	4H	17.6	18.4	18.0	18.8	19.3	15.8	16.7	16.3	17.1
	6H	18.0	18.6	18.5	19.1	19.6	15.8	16.5	16.3	17.0
	8H	18.1	18.7	18.6	19.2	19.7	15.8	16.4	16.3	16.9
	12H	18.1	18.7	18.6	19.2	19.7	15.8	16.3	16.3	16.8

12H	4H	17.5	18.3	18.0	18.7	19.2	15.8	16.6	16.3	17.0
	6H	18.0	18.5	18.5	19.0	19.6	15.8	16.4	16.4	16.9
	8H	18.1	18.6	18.6	19.1	19.7	15.8	16.3	16.3	16.8

Maximum UGR = 19.7

POLAR GRAPH



Maximum Candela = 597.517 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.)