



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L115-850-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 18635.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2024-01-08
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 4'SUSPENDED INDUSTRIAL LED LUMINAIRE
[MORE] WHITE REFLECTOR w/OPEN BOTTOM
[MORE] 0-10V DIMMING DRIVER
[LUMCAT] 80-4-L115-850-DIM-UNV
[LAMPCAT] HLM 80 CRI 5000K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11858
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	73.1
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	12864	12552	12519
55	12396	12122	12072
65	11807	11545	6171
75	9493	5274	1010
85	4265	1866	1400

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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	4455.963	4455.963	4455.963	4455.963	4455.963
5	4403.028	4387.904	4374.670	4391.685	4410.590
10	4314.173	4299.049	4367.108	4378.451	4334.969
15	4213.976	4257.458	4210.195	4176.165	4176.165
20	4087.311	4181.837	4047.610	4026.814	4026.814
25	3922.835	3943.631	3877.463	3866.119	3866.119
30	3712.987	3680.848	3656.271	3643.038	3639.257
35	3489.905	3457.766	3429.409	3425.628	3418.066
40	3244.137	3191.203	3176.079	3170.407	3166.626
45	2960.559	2900.062	2888.719	2884.938	2881.157
50	2629.717	2586.235	2573.002	2569.221	2569.221
55	2314.000	2266.737	2262.956	2253.503	2253.503
60	1954.801	1918.881	1915.100	1907.538	1901.866
65	1623.959	1591.820	1588.039	1223.168	848.845
70	1240.183	1211.825	969.838	657.902	671.136
75	799.691	799.691	444.273	383.776	85.074
80	423.477	274.126	77.511	64.278	64.278
85	120.993	64.278	52.935	39.701	39.701
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1608.5	N.A.	13.60
0-30	3401.46	N.A.	28.70
0-40	5553.57	N.A.	46.80
0-60	9809.03	N.A.	82.70
0-80	11781.03	N.A.	99.30
0-90	11858.21	N.A.	100.00
10-90	11440.06	N.A.	96.50
20-40	3945.08	N.A.	33.30
20-50	6179.1	N.A.	52.10
40-70	5661.56	N.A.	47.70
60-80	1972.00	N.A.	16.60
70-80	565.89	N.A.	4.80
80-90	77.18	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	11858.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	418.15
10-20	1190.35
20-30	1792.96
30-40	2152.12
40-50	2234.02
50-60	2021.44
60-70	1406.11
70-80	565.89
80-90	77.18
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	41	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	21.1	22.7	21.5	23.0	23.3	21.0	22.6	21.4	23.0	23.3
	3H	23.0	24.4	23.4	24.8	25.1	21.7	23.2	22.1	23.5	23.9
	4H	23.6	25.0	24.0	25.3	25.7	21.8	23.1	22.2	23.5	23.9
	6H	24.0	25.2	24.4	25.6	26.0	21.7	23.0	22.1	23.4	23.7
	8H	24.0	25.2	24.5	25.6	26.0	21.7	22.9	22.1	23.3	23.7
	12H	24.1	25.2	24.5	25.6	26.0	21.7	22.8	22.1	23.2	23.6

UGR Viewed Endwise

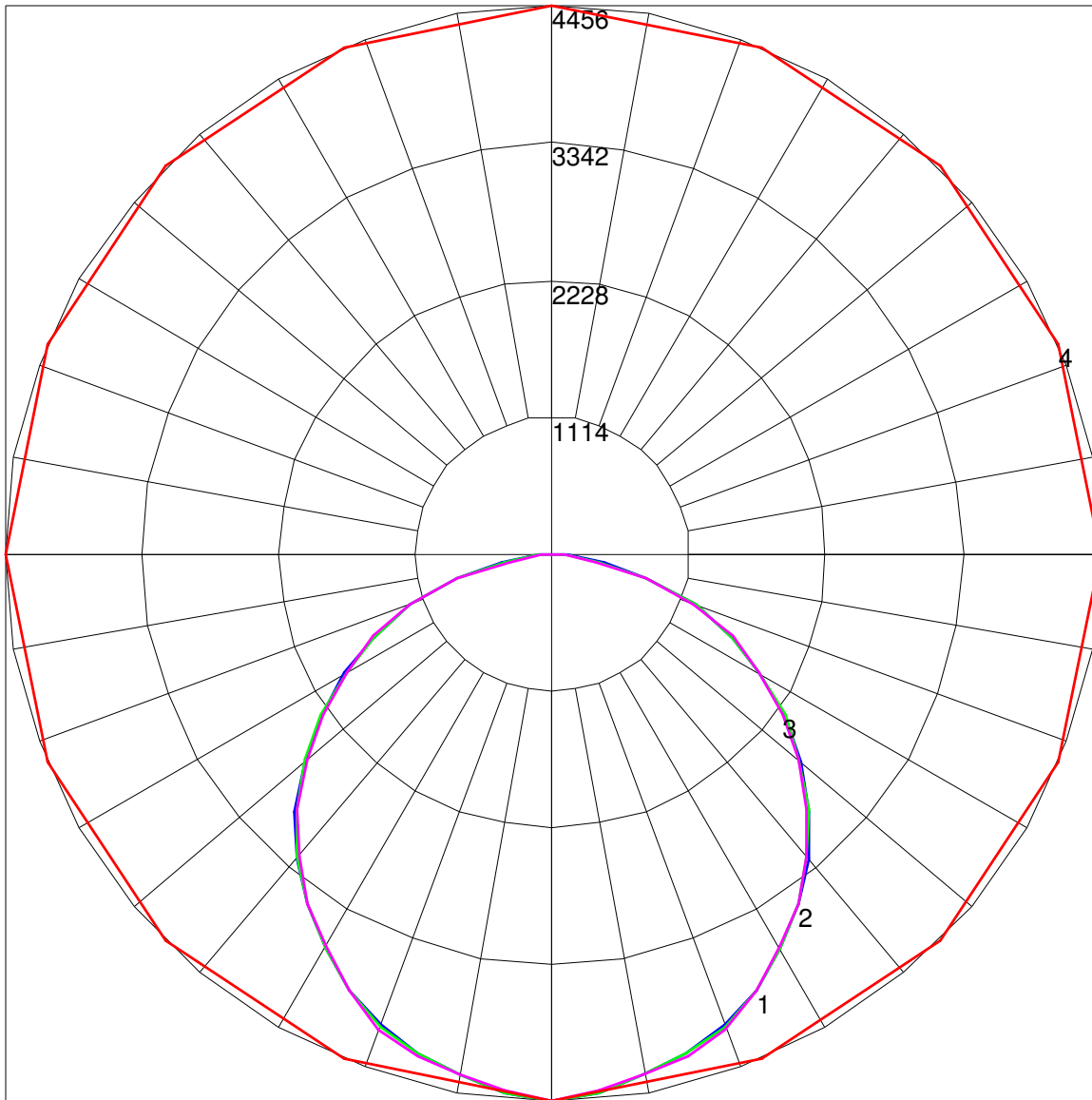
4H	2H	21.8	23.1	22.2	23.5	23.9	21.7	23.1	22.1	23.4	23.8
	3H	23.8	24.9	24.2	25.3	25.7	22.5	23.7	23.0	24.1	24.5
	4H	24.5	25.5	24.9	25.9	26.4	22.7	23.7	23.1	24.1	24.5
	6H	24.9	25.8	25.4	26.2	26.7	22.6	23.5	23.1	24.0	24.4
	8H	25.0	25.8	25.5	26.3	26.7	22.6	23.5	23.1	23.9	24.4
	12H	25.1	25.8	25.5	26.3	26.7	22.6	23.3	23.1	23.8	24.3

8H	4H	24.6	25.4	25.0	25.8	26.3	22.9	23.7	23.3	24.1	24.6
	6H	25.0	25.6	25.5	26.1	26.6	22.8	23.5	23.3	24.0	24.5
	8H	25.1	25.7	25.6	26.2	26.7	22.8	23.4	23.3	23.9	24.4
	12H	25.1	25.7	25.6	26.2	26.7	22.8	23.3	23.3	23.8	24.4

12H	4H	24.5	25.3	25.0	25.7	26.2	22.8	23.6	23.3	24.1	24.5
	6H	25.0	25.6	25.5	26.0	26.6	22.8	23.4	23.4	23.9	24.4
	8H	25.1	25.6	25.6	26.1	26.7	22.8	23.3	23.3	23.8	24.4

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 4455.963 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)