



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L115-827-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-L115-827-DIM-UNV
[LAMPCAT] HLM 80 CRI 2700K 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	10822
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
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	11740	11455	11425
55	11312	11063	11017
65	10775	10537	5632
75	8664	4813	922
85	3893	1703	1277

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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	4066.608	4066.608	4066.608	4066.608	4066.608
5	4018.298	4004.496	3992.418	4007.946	4025.200
10	3937.208	3923.405	3985.517	3995.869	3956.186
15	3845.765	3885.448	3842.314	3811.258	3811.258
20	3730.168	3816.434	3693.936	3674.957	3674.957
25	3580.064	3599.043	3538.656	3528.304	3528.304
30	3388.552	3359.221	3336.792	3324.715	3321.264
35	3184.963	3155.632	3129.752	3126.302	3119.400
40	2960.670	2912.360	2898.558	2893.382	2889.931
45	2701.870	2646.659	2636.307	2632.857	2629.406
50	2399.937	2360.254	2348.177	2344.726	2344.726
55	2111.806	2068.673	2065.222	2056.596	2056.596
60	1783.993	1751.212	1747.761	1740.860	1735.684
65	1482.060	1452.730	1449.279	1116.290	774.674
70	1131.818	1105.938	885.095	600.416	612.493
75	729.815	729.815	405.453	350.242	77.640
80	386.474	250.173	70.739	58.661	58.661
85	110.421	58.661	48.309	36.232	36.232
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1467.95	N.A.	13.60
0-30	3104.24	N.A.	28.70
0-40	5068.31	N.A.	46.80
0-60	8951.93	N.A.	82.70
0-80	10751.62	N.A.	99.30
0-90	10822.05	N.A.	100.00
10-90	10440.45	N.A.	96.50
20-40	3600.36	N.A.	33.30
20-50	5639.18	N.A.	52.10
40-70	5166.87	N.A.	47.70
60-80	1799.69	N.A.	16.60
70-80	516.44	N.A.	4.80
80-90	70.43	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	10822.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	381.61
10-20	1086.34
20-30	1636.29
30-40	1964.07
40-50	2038.81
50-60	1844.81
60-70	1283.24
70-80	516.44
80-90	70.43
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	27	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	20.8	22.4	21.2	22.7	23.0	UGR Viewed Endwise			
	3H	22.7	24.1	23.1	24.5	24.8	20.7	22.3	21.1	22.7
	4H	23.3	24.7	23.7	25.0	25.4	21.4	22.9	21.8	23.2
	6H	23.7	24.9	24.1	25.3	25.7	21.5	22.8	21.9	23.2
	8H	23.7	24.9	24.2	25.3	25.7	21.4	22.7	21.8	23.1
	12H	23.8	24.9	24.2	25.3	25.7	21.4	22.6	21.8	23.0

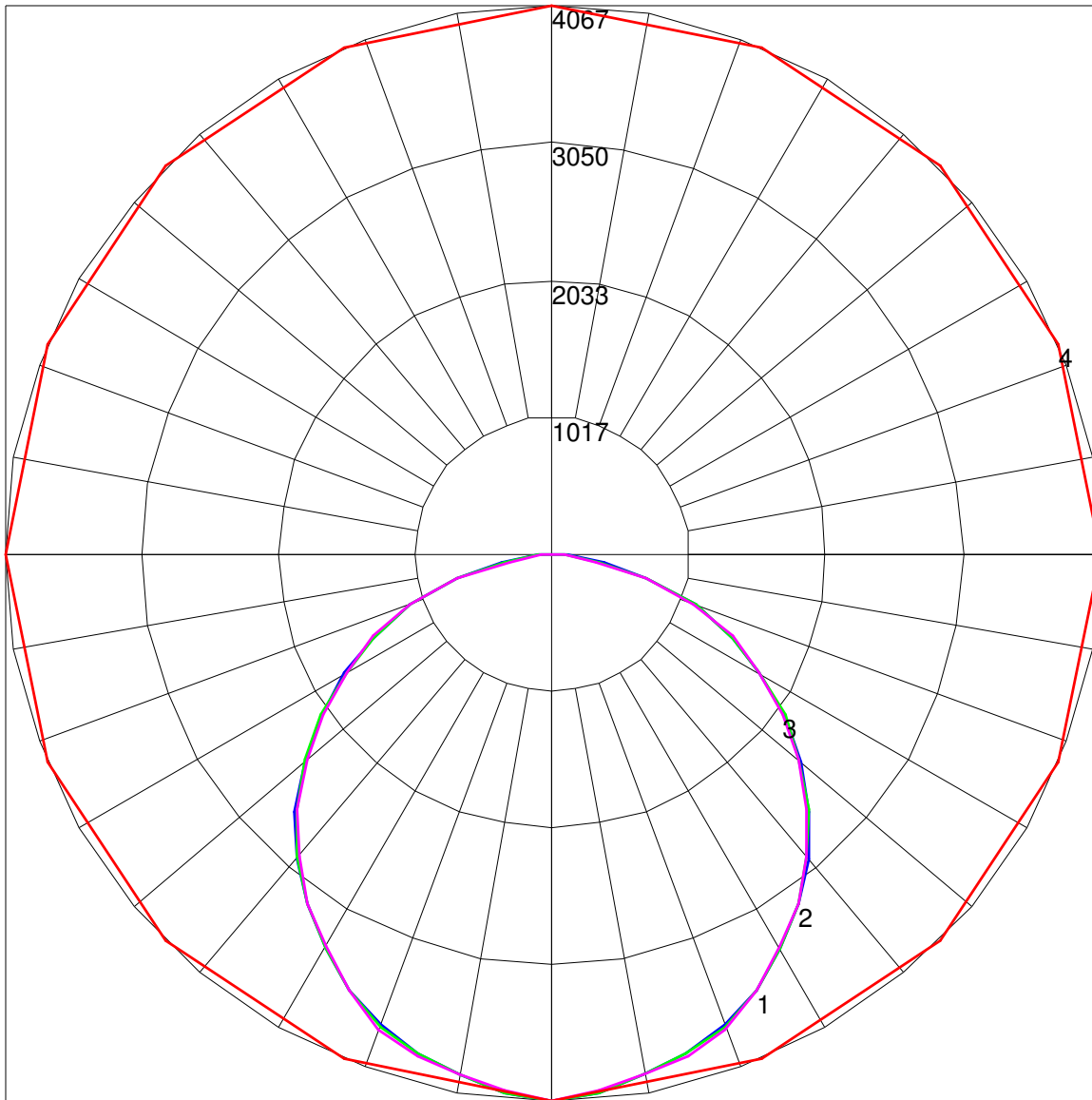
4H	2H	21.5	22.8	21.9	23.2	23.6	21.4	22.8	21.8	23.1
	3H	23.5	24.6	23.9	25.0	25.4	22.2	23.4	22.7	23.8
	4H	24.2	25.2	24.6	25.6	26.1	22.4	23.4	22.8	23.8
	6H	24.6	25.5	25.1	25.9	26.4	22.3	23.2	22.8	23.7
	8H	24.7	25.5	25.2	26.0	26.4	22.3	23.2	22.8	23.6
	12H	24.8	25.5	25.2	26.0	26.4	22.3	23.0	22.8	23.5

8H	4H	24.3	25.1	24.7	25.5	26.0	22.6	23.4	23.0	23.8
	6H	24.7	25.3	25.2	25.8	26.3	22.5	23.2	23.0	23.7
	8H	24.8	25.4	25.3	25.9	26.4	22.5	23.1	23.0	23.6
	12H	24.8	25.4	25.3	25.9	26.4	22.5	23.0	23.0	23.5

12H	4H	24.2	25.0	24.7	25.4	25.9	22.5	23.3	23.0	23.8
	6H	24.7	25.3	25.2	25.7	26.3	22.5	23.1	23.1	23.6
	8H	24.8	25.3	25.3	25.8	26.4	22.5	23.0	23.0	23.5

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 4066.608 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.)