



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L77-827-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-L77-827-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	7314
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	51.4
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	7934	7742	7721
55	7645	7477	7445
65	7282	7121	3806
75	5855	3253	623
85	2631	1151	863

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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	2748.281	2748.281	2748.281	2748.281	2748.281
5	2715.633	2706.305	2698.143	2708.637	2720.297
10	2660.830	2651.502	2693.478	2700.475	2673.656
15	2599.032	2625.850	2596.700	2575.712	2575.712
20	2520.909	2579.210	2496.423	2483.597	2483.597
25	2419.467	2432.293	2391.482	2384.486	2384.486
30	2290.040	2270.218	2255.059	2246.897	2244.565
35	2152.451	2132.629	2115.139	2112.806	2108.142
40	2000.870	1968.221	1958.893	1955.395	1953.063
45	1825.969	1788.656	1781.660	1779.328	1776.996
50	1621.917	1595.099	1586.937	1584.605	1584.605
55	1427.194	1398.044	1395.712	1389.882	1389.882
60	1205.652	1183.498	1181.166	1176.502	1173.004
65	1001.601	981.779	979.447	754.407	523.538
70	764.901	747.411	598.162	405.771	413.933
75	493.221	493.221	274.012	236.700	52.470
80	261.186	169.071	47.806	39.644	39.644
85	74.625	39.644	32.648	24.486	24.486
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	992.06	N.A.	13.60
0-30	2097.9	N.A.	28.70
0-40	3425.25	N.A.	46.80
0-60	6049.87	N.A.	82.70
0-80	7266.12	N.A.	99.30
0-90	7313.72	N.A.	100.00
10-90	7055.83	N.A.	96.50
20-40	2433.18	N.A.	33.30
20-50	3811.05	N.A.	52.10
40-70	3491.85	N.A.	47.70
60-80	1216.26	N.A.	16.60
70-80	349.02	N.A.	4.80
80-90	47.60	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	7313.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	257.90
10-20	734.17
20-30	1105.83
30-40	1327.35
40-50	1377.86
50-60	1246.75
60-70	867.24
70-80	349.02
80-90	47.60
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	39	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

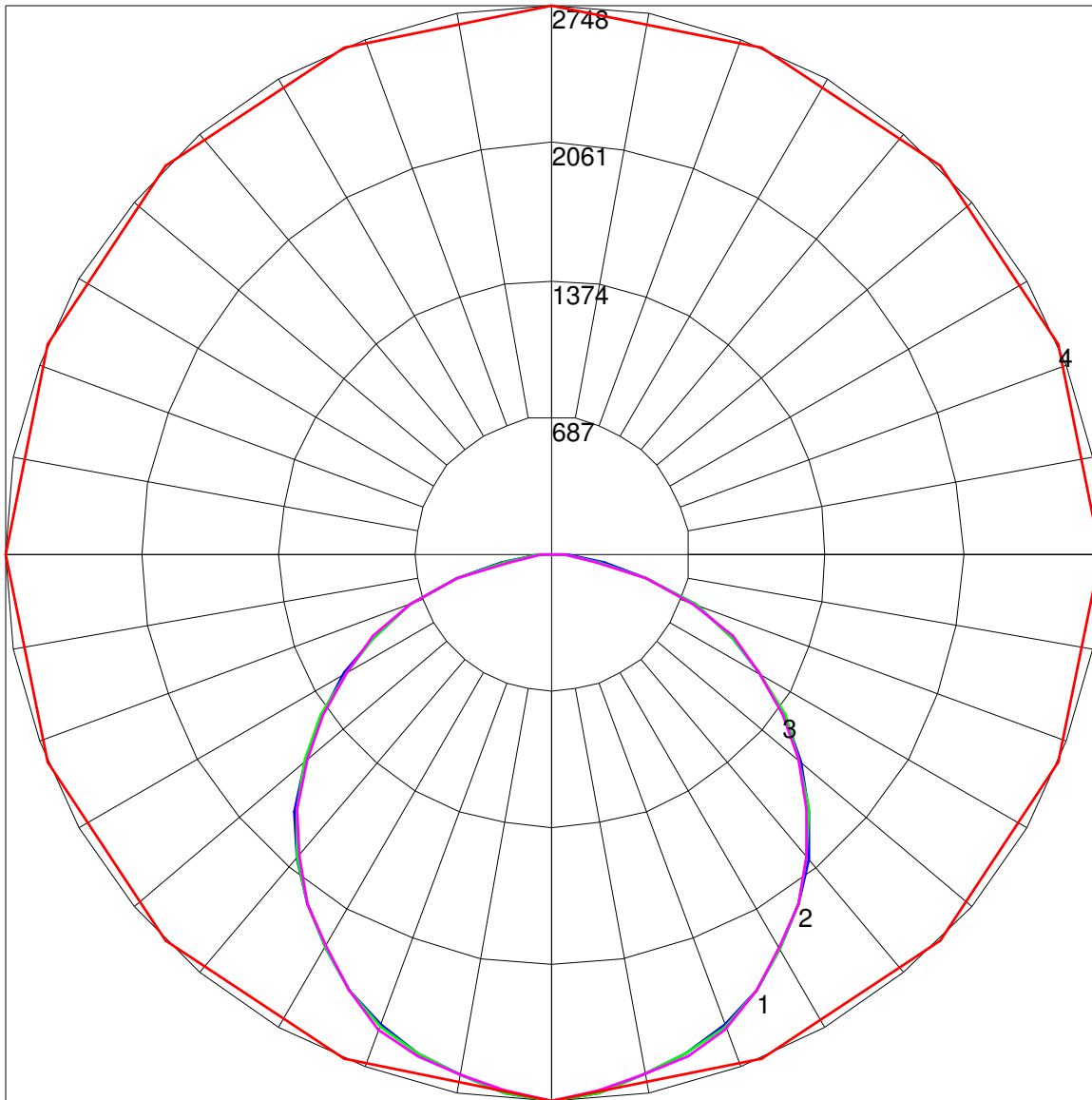
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.4	21.0	19.8	21.3	21.6	19.3	20.9	19.7	21.3	21.6
	3H	21.3	22.7	21.7	23.1	23.4	20.0	21.5	20.4	21.8	22.2
	4H	21.9	23.3	22.3	23.6	24.0	20.1	21.4	20.5	21.8	22.2
	6H	22.3	23.5	22.7	23.9	24.3	20.0	21.3	20.4	21.7	22.0
	8H	22.3	23.5	22.8	23.9	24.3	20.0	21.2	20.4	21.6	22.0
	12H	22.4	23.5	22.8	23.9	24.3	20.0	21.1	20.4	21.5	21.9
4H	2H	20.1	21.4	20.5	21.8	22.2	20.0	21.4	20.4	21.7	22.1
	3H	22.1	23.2	22.5	23.6	24.0	20.8	22.0	21.3	22.4	22.8
	4H	22.8	23.8	23.2	24.2	24.7	21.0	22.0	21.4	22.4	22.8
	6H	23.2	24.1	23.7	24.5	25.0	20.9	21.8	21.4	22.3	22.7
	8H	23.3	24.1	23.8	24.6	25.0	20.9	21.8	21.4	22.2	22.7
	12H	23.4	24.1	23.8	24.6	25.0	20.9	21.6	21.4	22.1	22.6
8H	4H	22.9	23.7	23.3	24.1	24.6	21.1	22.0	21.6	22.4	22.9
	6H	23.3	23.9	23.8	24.4	24.9	21.1	21.8	21.6	22.3	22.8
	8H	23.4	24.0	23.9	24.5	25.0	21.1	21.7	21.6	22.2	22.7
	12H	23.4	24.0	23.9	24.5	25.0	21.1	21.6	21.6	22.1	22.7
12H	4H	22.8	23.6	23.3	24.0	24.5	21.1	21.9	21.6	22.3	22.8
	6H	23.3	23.9	23.8	24.3	24.9	21.1	21.7	21.7	22.2	22.7
	8H	23.4	23.9	23.9	24.4	25.0	21.1	21.6	21.6	22.1	22.7

Maximum UGR = 25.0

POLAR GRAPH



Maximum Candela = 2748.281 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.)