



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L77-835-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-L77-835-DIM-UNV
[LAMPCAT] HLM 80 CRI 3500K 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	7547
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
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	8187	7989	7968
55	7889	7715	7683
65	7514	7348	3928
75	6042	3357	643
85	2715	1188	891

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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	2835.992	2835.992	2835.992	2835.992	2835.992
5	2802.302	2792.676	2784.253	2795.082	2807.115
10	2745.750	2736.124	2779.440	2786.660	2758.986
15	2681.980	2709.654	2679.573	2657.915	2657.915
20	2601.364	2661.525	2576.096	2562.861	2562.861
25	2496.683	2509.919	2467.806	2460.587	2460.587
30	2363.126	2342.671	2327.029	2318.607	2316.200
35	2221.146	2200.691	2182.643	2180.236	2175.424
40	2064.727	2031.037	2021.411	2017.802	2015.395
45	1884.244	1845.741	1838.522	1836.115	1833.709
50	1673.680	1646.006	1637.584	1635.177	1635.177
55	1472.742	1442.662	1440.255	1434.239	1434.239
60	1244.130	1221.269	1218.863	1214.050	1210.440
65	1033.567	1013.112	1010.706	778.484	540.246
70	789.313	771.265	617.252	418.721	427.143
75	508.962	508.962	282.757	244.254	54.145
80	269.521	174.467	49.332	40.910	40.910
85	77.006	40.910	33.690	25.268	25.268
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1023.73	N.A.	13.60
0-30	2164.85	N.A.	28.70
0-40	3534.56	N.A.	46.80
0-60	6242.95	N.A.	82.70
0-80	7498.02	N.A.	99.30
0-90	7547.14	N.A.	100.00
10-90	7281.01	N.A.	96.50
20-40	2510.84	N.A.	33.30
20-50	3932.68	N.A.	52.10
40-70	3603.3	N.A.	47.70
60-80	1255.07	N.A.	16.60
70-80	360.16	N.A.	4.80
80-90	49.12	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	7547.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	266.13
10-20	757.60
20-30	1141.13
30-40	1369.71
40-50	1421.84
50-60	1286.54
60-70	894.92
70-80	360.16
80-90	49.12
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					UGR Viewed Endwise				
X=2H	Y=2H	19.5	21.1	19.9	21.4	21.7	19.4	21.0	19.8	21.4	21.7
	3H	21.4	22.8	21.8	23.2	23.5	20.1	21.6	20.5	21.9	22.3
	4H	22.0	23.4	22.4	23.7	24.1	20.2	21.5	20.6	21.9	22.3
	6H	22.4	23.6	22.8	24.0	24.4	20.1	21.4	20.5	21.8	22.1
	8H	22.4	23.6	22.9	24.0	24.4	20.1	21.3	20.5	21.7	22.1
	12H	22.5	23.6	22.9	24.0	24.4	20.1	21.2	20.5	21.6	22.0
4H	2H	20.2	21.5	20.6	21.9	22.3	20.1	21.5	20.5	21.8	22.2
	3H	22.2	23.3	22.6	23.7	24.1	20.9	22.1	21.4	22.5	22.9
	4H	22.9	23.9	23.3	24.3	24.8	21.1	22.1	21.5	22.5	22.9
	6H	23.3	24.2	23.8	24.6	25.1	21.0	21.9	21.5	22.4	22.8
	8H	23.4	24.2	23.9	24.7	25.1	21.0	21.9	21.5	22.3	22.8
	12H	23.5	24.2	23.9	24.7	25.1	21.0	21.7	21.5	22.2	22.7
8H	4H	23.0	23.8	23.4	24.2	24.7	21.3	22.1	21.7	22.5	23.0
	6H	23.4	24.0	23.9	24.5	25.0	21.2	21.9	21.7	22.4	22.9
	8H	23.5	24.1	24.0	24.6	25.1	21.2	21.8	21.7	22.3	22.8
	12H	23.5	24.1	24.0	24.6	25.1	21.2	21.7	21.7	22.2	22.8
12H	4H	22.9	23.7	23.4	24.1	24.6	21.2	22.0	21.7	22.5	22.9
	6H	23.4	24.0	23.9	24.4	25.0	21.2	21.8	21.8	22.3	22.8
	8H	23.5	24.0	24.0	24.5	25.1	21.2	21.7	21.7	22.2	22.8

Maximum UGR = 25.1

