



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L230-927-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] 2024-01-09
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 8' SUSPENDED INDUSTRIAL LED LUMINAIRE
[MORE] WHITE REFLECTOR w/OPEN BOTTOM
[MORE] 0-10V DIMMING DRIVER
[LUMCAT] 80-8-L230-927-DIM-UNV
[LAMPCAT] HLM 22 INCH LED ARRAYS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17730
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	146.1
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)	8.00 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	9617	9384	9359
55	9267	9062	9024
65	8826	8631	4613
75	7097	3943	755
85	3189	1395	1046

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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	6662.313	6662.313	6662.313	6662.313	6662.313
5	6583.168	6560.555	6540.769	6566.208	6594.474
10	6450.317	6427.704	6529.462	6546.422	6481.410
15	6300.507	6365.519	6294.854	6243.975	6243.975
20	6111.124	6252.455	6051.766	6020.673	6020.673
25	5865.210	5896.302	5797.371	5780.411	5780.411
30	5551.456	5503.404	5466.658	5446.872	5441.218
35	5217.917	5169.864	5127.465	5121.812	5110.505
40	4850.458	4771.313	4748.700	4740.220	4734.567
45	4426.467	4336.015	4319.055	4313.402	4307.749
50	3931.810	3866.798	3847.012	3841.359	3841.359
55	3459.767	3389.102	3383.449	3369.316	3369.316
60	2922.712	2869.006	2863.353	2852.046	2843.567
65	2428.055	2380.003	2374.350	1828.815	1269.147
70	1854.254	1811.855	1450.049	983.659	1003.445
75	1195.655	1195.655	664.253	573.801	127.197
80	633.160	409.858	115.891	96.105	96.105
85	180.903	96.105	79.145	59.359	59.359
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2404.94	N.A.	13.60
0-30	5085.67	N.A.	28.70
0-40	8303.4	N.A.	46.80
0-60	14665.93	N.A.	82.70
0-80	17614.35	N.A.	99.30
0-90	17729.74	N.A.	100.00
10-90	17104.56	N.A.	96.50
20-40	5898.46	N.A.	33.30
20-50	9238.65	N.A.	52.10
40-70	8464.86	N.A.	47.70
60-80	2948.42	N.A.	16.60
70-80	846.09	N.A.	4.80
80-90	115.39	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	17729.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	625.19
10-20	1779.75
20-30	2680.74
30-40	3217.73
40-50	3340.18
50-60	3022.35
60-70	2102.33
70-80	846.09
80-90	115.39
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

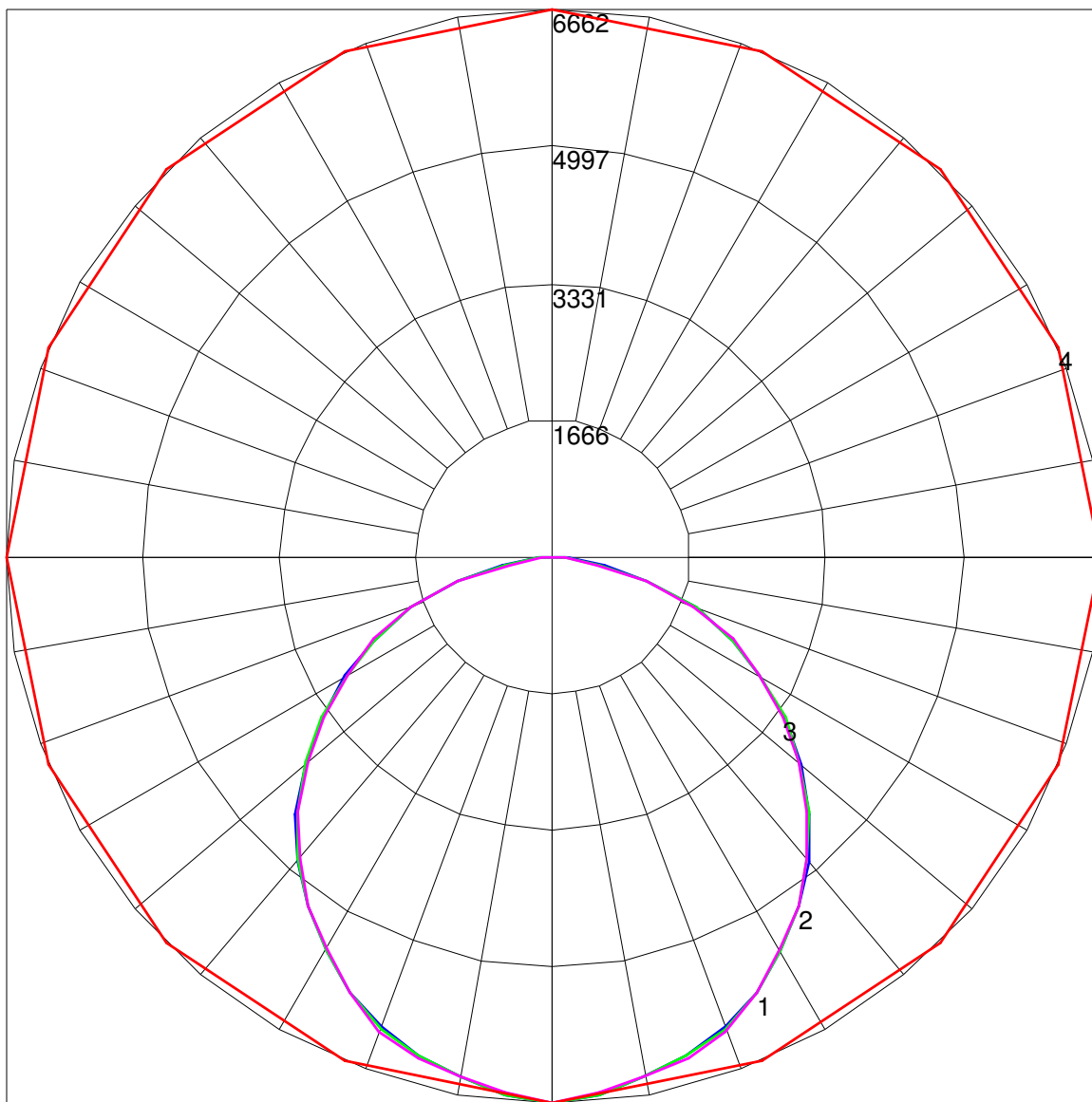
Reflectances

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	20.1	21.7	20.5	22.0	22.3	20.0	21.6	20.4	21.9	22.3
	3H	22.0	23.4	22.4	23.8	24.1	20.7	22.2	21.1	22.5	22.9
	4H	22.6	24.0	23.0	24.3	24.7	20.8	22.1	21.2	22.5	22.8
	6H	23.0	24.2	23.4	24.6	25.0	20.7	22.0	21.1	22.3	22.7
	8H	23.0	24.2	23.5	24.6	25.0	20.7	21.9	21.1	22.3	22.7
	12H	23.1	24.2	23.5	24.6	25.0	20.7	21.8	21.1	22.2	22.6
4H	2H	20.8	22.1	21.2	22.5	22.8	20.7	22.1	21.1	22.4	22.8
	3H	22.8	23.9	23.2	24.3	24.7	21.5	22.7	21.9	23.1	23.5
	4H	23.5	24.5	23.9	24.9	25.4	21.7	22.7	22.1	23.1	23.5
	6H	23.9	24.8	24.3	25.2	25.7	21.6	22.5	22.1	23.0	23.4
	8H	24.0	24.8	24.5	25.3	25.7	21.6	22.4	22.1	22.9	23.4
	12H	24.0	24.8	24.5	25.2	25.7	21.6	22.3	22.1	22.8	23.3
8H	4H	23.5	24.4	24.0	24.8	25.3	21.8	22.7	22.3	23.1	23.6
	6H	24.0	24.6	24.4	25.1	25.6	21.8	22.5	22.3	23.0	23.5
	8H	24.1	24.7	24.6	25.2	25.7	21.8	22.4	22.3	22.9	23.4
	12H	24.1	24.7	24.6	25.2	25.7	21.8	22.3	22.3	22.8	23.4
12H	4H	23.5	24.2	24.0	24.7	25.2	21.8	22.6	22.3	23.0	23.5
	6H	23.9	24.5	24.5	25.0	25.5	21.8	22.4	22.3	22.9	23.4
	8H	24.1	24.6	24.6	25.1	25.6	21.8	22.3	22.3	22.8	23.4

Maximum UGR = 25.7

POLAR GRAPH



Maximum Candela = 6662.313 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.)