



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-8-L230-935-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-L230-935-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	18421
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	9992	9749	9724
55	9628	9415	9376
65	9170	8967	4793
75	7374	4096	784
85	3313	1449	1087

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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	6921.884	6921.884	6921.884	6921.884	6921.884
5	6839.656	6816.162	6795.605	6822.035	6851.403
10	6701.629	6678.135	6783.858	6801.478	6733.933
15	6545.982	6613.527	6540.109	6487.247	6487.247
20	6349.221	6496.058	6287.549	6255.245	6255.245
25	6093.725	6126.029	6023.243	6005.623	6005.623
30	5767.747	5717.823	5679.645	5659.088	5653.215
35	5421.213	5371.288	5327.237	5321.364	5309.617
40	5039.437	4957.209	4933.715	4924.904	4919.031
45	4598.927	4504.951	4487.331	4481.457	4475.584
50	4084.998	4017.453	3996.896	3991.023	3991.023
55	3594.564	3521.145	3515.272	3500.588	3500.588
60	3036.584	2980.786	2974.912	2963.166	2954.355
65	2522.655	2472.731	2466.857	1900.067	1318.594
70	1926.498	1882.447	1506.545	1021.984	1042.541
75	1242.239	1242.239	690.133	596.157	132.153
80	657.829	425.827	120.406	99.849	99.849
85	187.951	99.849	82.229	61.671	61.671
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2498.64	N.A.	13.60
0-30	5283.82	N.A.	28.70
0-40	8626.91	N.A.	46.80
0-60	15237.33	N.A.	82.70
0-80	18300.63	N.A.	99.30
0-90	18420.52	N.A.	100.00
10-90	17770.97	N.A.	96.50
20-40	6128.27	N.A.	33.30
20-50	9598.59	N.A.	52.10
40-70	8794.66	N.A.	47.70
60-80	3063.3	N.A.	16.60
70-80	879.05	N.A.	4.80
80-90	119.89	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	18420.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	649.55
10-20	1849.09
20-30	2785.18
30-40	3343.09
40-50	3470.32
50-60	3140.1
60-70	2184.24
70-80	879.05
80-90	119.89
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

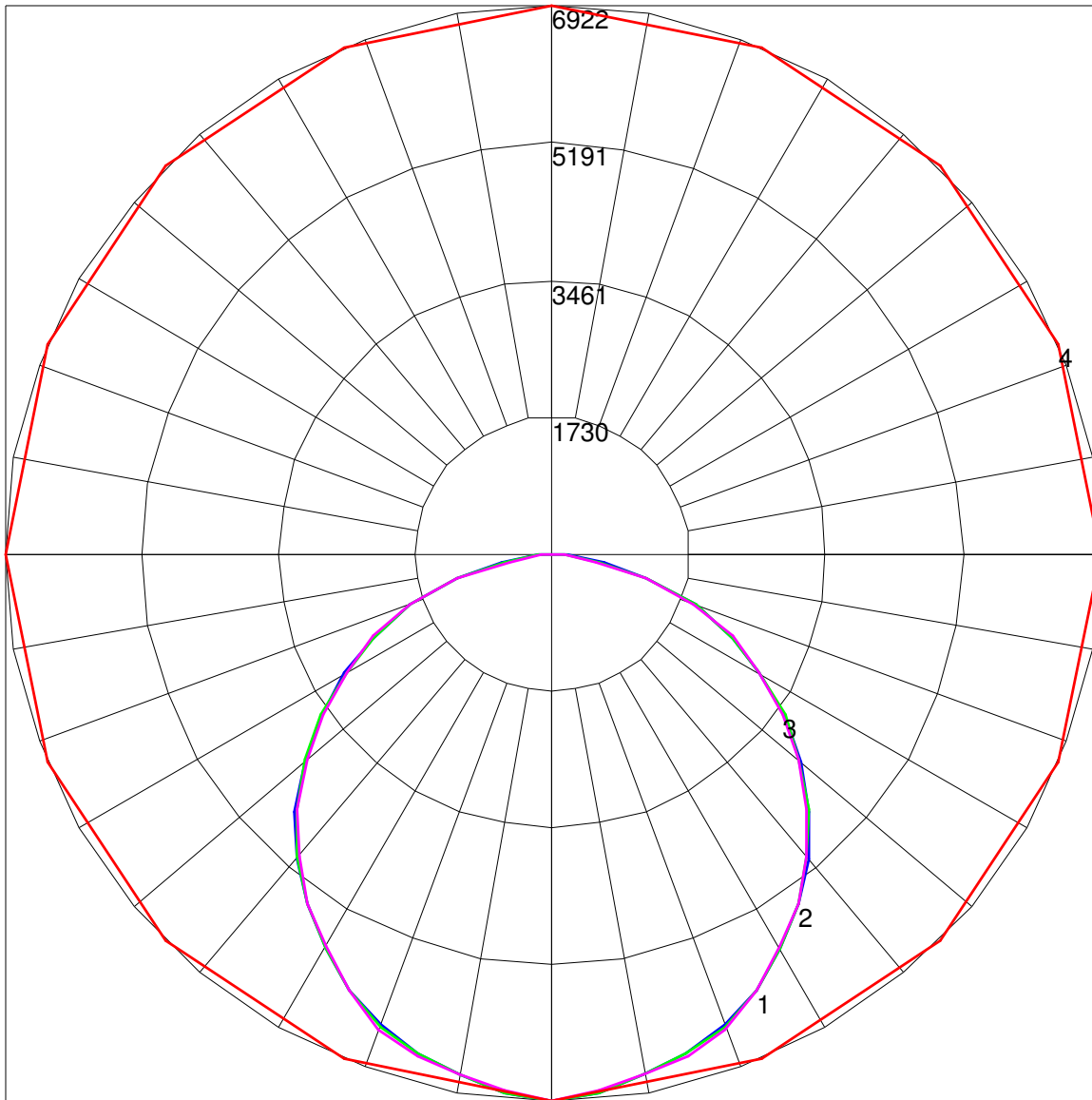
Reflectances

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	20.2	21.8	20.6	22.1	22.4	20.1	21.7	20.5	22.0	22.4
	3H	22.1	23.5	22.5	23.9	24.2	20.8	22.3	21.2	22.6	23.0
	4H	22.7	24.1	23.1	24.4	24.8	20.9	22.2	21.3	22.6	22.9
	6H	23.1	24.3	23.5	24.7	25.1	20.8	22.1	21.2	22.4	22.8
	8H	23.1	24.3	23.6	24.7	25.1	20.8	22.0	21.2	22.4	22.8
	12H	23.2	24.3	23.6	24.7	25.1	20.8	21.9	21.2	22.3	22.7
4H	2H	20.9	22.2	21.3	22.6	22.9	20.8	22.2	21.2	22.5	22.9
	3H	22.9	24.0	23.3	24.4	24.8	21.6	22.8	22.0	23.2	23.6
	4H	23.6	24.6	24.0	25.0	25.5	21.8	22.8	22.2	23.2	23.6
	6H	24.0	24.9	24.4	25.3	25.8	21.7	22.6	22.2	23.1	23.5
	8H	24.1	24.9	24.6	25.4	25.8	21.7	22.5	22.2	23.0	23.5
	12H	24.1	24.9	24.6	25.3	25.8	21.7	22.4	22.2	22.9	23.4
8H	4H	23.6	24.5	24.1	24.9	25.4	21.9	22.8	22.4	23.2	23.7
	6H	24.1	24.7	24.5	25.2	25.7	21.9	22.6	22.4	23.1	23.6
	8H	24.2	24.8	24.7	25.3	25.8	21.9	22.5	22.4	23.0	23.5
	12H	24.2	24.8	24.7	25.3	25.8	21.9	22.4	22.4	22.9	23.5
12H	4H	23.6	24.3	24.1	24.8	25.3	21.9	22.7	22.4	23.1	23.6
	6H	24.0	24.6	24.6	25.1	25.6	21.9	22.5	22.4	23.0	23.5
	8H	24.2	24.7	24.7	25.2	25.7	21.9	22.4	22.4	22.9	23.5

Maximum UGR = 25.8

POLAR GRAPH



Maximum Candela = 6921.884 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.)