



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 82-8-L214-840-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 20804.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 04-MAR-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 8-28 LED 22" ARRAYS 8' INDUSTRIAL LUMINAIRE
 [MORE] WHITE REFLECTOR w/OPEN BOTTOM
 [LUMCAT] 82-8-L214-840-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21656
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	136.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	1.08 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10354	10193	10062
55	10115	10019	5197
65	9494	5170	5071
75	7548	1675	1562
85	2609	1304	580

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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	8086.528	8086.528	8086.528	8086.528	8086.528
5	8215.424	8072.960	8001.728	7988.160	7991.552
10	8127.232	7988.160	7916.928	7903.360	7903.360
15	7991.552	7849.088	7777.856	7961.024	8086.528
20	7794.816	7652.352	7804.992	7750.720	7876.224
25	7523.456	7408.128	7581.120	7299.584	7306.368
30	7224.960	7140.160	7045.184	7004.480	6997.696
35	6845.056	7011.264	6648.320	6682.240	6648.320
40	6366.784	6682.240	6285.376	6254.848	6210.752
45	5898.688	5878.336	5807.104	5735.872	5732.480
50	5301.696	5250.816	5223.680	5071.040	3225.792
55	4674.176	4660.608	4630.080	2421.888	2401.536
60	3941.504	4002.560	2130.176	2086.080	2086.080
65	3232.576	3219.008	1760.448	1699.392	1726.528
70	2387.968	2415.104	1356.800	471.488	369.728
75	1573.888	956.544	349.376	322.240	325.632
80	810.688	413.824	251.008	210.304	196.736
85	183.168	152.640	91.584	47.488	40.704
90	6.784	64.448	23.744	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2997.29	N.A.	13.80
0-30	6425.25	N.A.	29.70
0-40	10658.34	N.A.	49.20
0-60	18525.56	N.A.	85.50
0-80	21501.00	N.A.	99.30
0-90	21655.98	N.A.	100.00
10-90	20890.89	N.A.	96.50
20-40	7661.06	N.A.	35.40
20-50	12092.11	N.A.	55.80
40-70	10042.13	N.A.	46.40
60-80	2975.44	N.A.	13.70
70-80	800.53	N.A.	3.70
80-90	154.99	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	21655.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	765.09
10-20	2232.2
20-30	3427.96
30-40	4233.1
40-50	4431.06
50-60	3436.16
60-70	2174.91
70-80	800.53
80-90	154.99
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	200	200	200	200	195	195	195	195	187	187	187	179	179	179	171	171	171	168
1	185	178	171	165	180	174	168	163	167	162	158	160	156	153	154	151	148	145
2	169	156	146	137	165	153	144	135	148	139	132	142	135	129	137	132	127	123
3	155	138	126	115	151	136	124	114	131	121	112	126	118	110	122	115	109	105
4	142	123	109	98	139	121	108	98	117	105	96	113	103	95	109	101	94	90
5	131	110	96	85	128	108	95	85	105	93	84	102	91	83	99	89	82	79
6	121	99	85	75	118	98	84	74	95	83	74	92	81	73	90	80	72	69
7	112	90	76	66	109	89	75	66	86	74	65	84	73	65	82	72	64	61
8	105	82	68	59	102	81	68	59	79	67	58	77	66	58	75	65	58	54
9	98	76	62	53	95	75	62	53	73	61	53	71	60	52	69	59	52	49
10	91	70	57	48	89	69	56	48	67	56	48	66	55	47	64	54	47	44

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UGR TABLE - CORRECTED

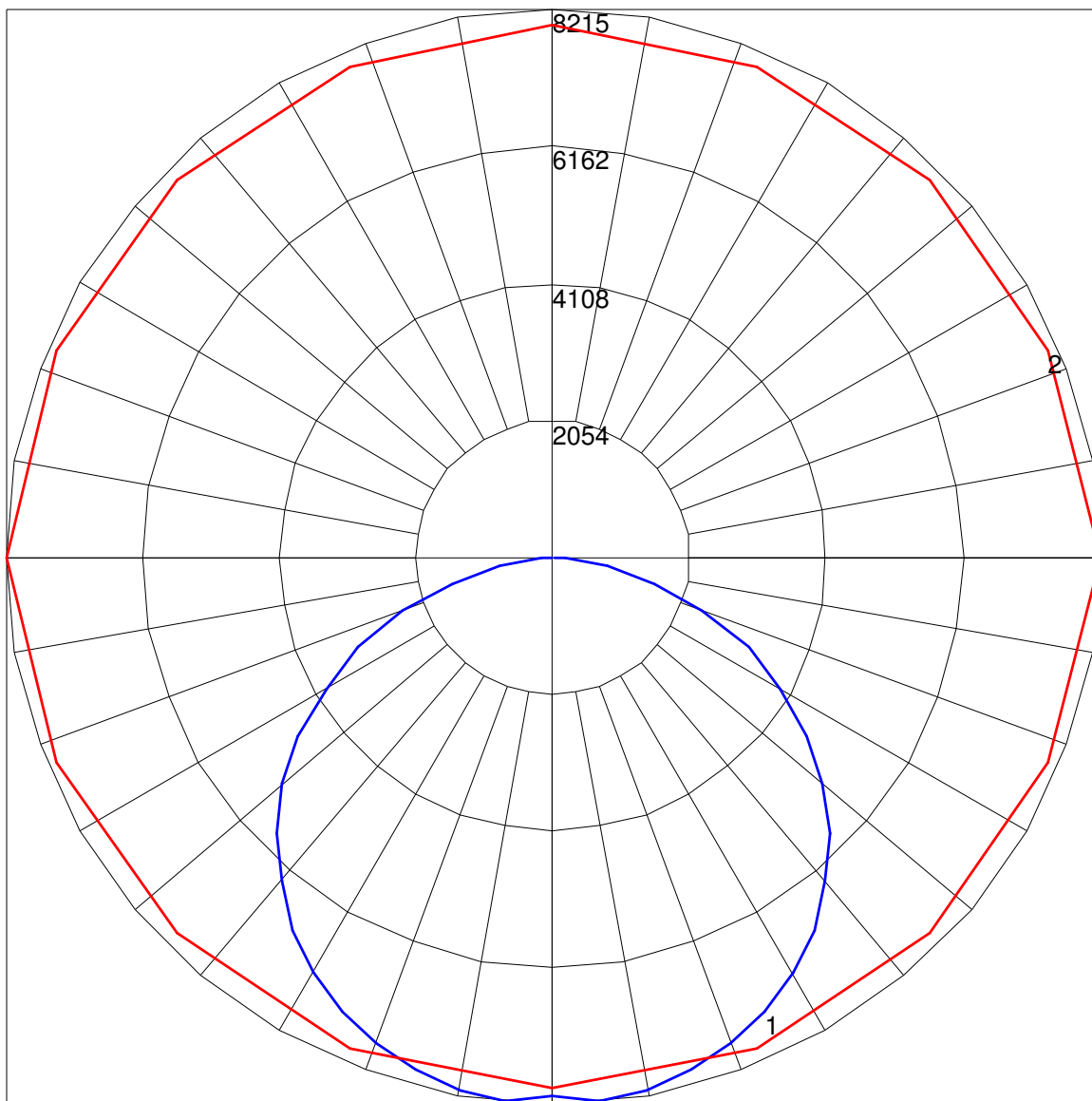
Reflectances

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	19.1	20.7	19.5	21.0	21.3	14.6	16.2	15.0	16.5	16.8
	3H	20.9	22.3	21.3	22.6	23.0	15.2	16.6	15.6	17.0	17.3
	4H	21.4	22.7	21.8	23.0	23.4	15.3	16.6	15.7	17.0	17.3
	6H	21.6	22.9	22.1	23.2	23.6	15.4	16.6	15.8	17.0	17.3
	8H	21.7	22.9	22.1	23.3	23.7	15.4	16.5	15.8	16.9	17.3
	12H	21.7	22.8	22.1	23.2	23.6	15.4	16.5	15.8	16.9	17.3
4H	2H	19.2	20.5	19.6	20.9	21.3	15.3	16.6	15.7	17.0	17.4
	3H	21.2	22.3	21.7	22.7	23.1	16.1	17.1	16.5	17.5	17.9
	4H	21.7	22.7	22.2	23.1	23.6	16.2	17.1	16.6	17.5	18.0
	6H	22.1	22.9	22.5	23.4	23.8	16.3	17.1	16.7	17.6	18.0
	8H	22.2	23.0	22.6	23.4	23.9	16.3	17.1	16.8	17.5	18.0
	12H	22.2	22.9	22.7	23.4	23.9	16.3	17.0	16.8	17.5	17.9
8H	4H	21.7	22.5	22.2	22.9	23.4	16.5	17.3	16.9	17.7	18.2
	6H	22.0	22.7	22.5	23.2	23.7	16.6	17.3	17.1	17.8	18.2
	8H	22.2	22.7	22.7	23.2	23.7	16.7	17.2	17.2	17.7	18.2
	12H	22.2	22.7	22.7	23.2	23.8	16.7	17.2	17.2	17.7	18.2
12H	4H	21.7	22.4	22.1	22.8	23.3	16.5	17.2	17.0	17.7	18.1
	6H	22.0	22.6	22.6	23.1	23.6	16.7	17.2	17.2	17.7	18.2
	8H	22.1	22.7	22.6	23.1	23.7	16.7	17.2	17.2	17.7	18.3

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 8215.424 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)