



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 82-8-L128-840-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-L128-840-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12887
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	81.9
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	6162	6066	5988
55	6019	5962	3093
65	5650	3077	3017
75	4492	997	929
85	1552	776	345

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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	4812.104	4812.104	4812.104	4812.104	4812.104
5	4888.807	4804.030	4761.642	4753.568	4755.586
10	4836.326	4753.568	4711.179	4703.105	4703.105
15	4755.586	4670.809	4628.421	4737.420	4812.104
20	4638.513	4553.736	4644.569	4612.273	4686.957
25	4477.033	4408.404	4511.348	4343.812	4347.849
30	4299.405	4248.943	4192.425	4168.203	4164.166
35	4073.333	4172.240	3956.260	3976.445	3956.260
40	3788.725	3976.445	3740.281	3722.114	3695.874
45	3510.172	3498.061	3455.672	3413.284	3411.265
50	3154.916	3124.638	3108.490	3017.658	1919.594
55	2781.493	2773.419	2755.253	1441.209	1429.098
60	2345.497	2381.830	1267.618	1241.378	1241.378
65	1923.631	1915.557	1047.602	1011.269	1027.417
70	1421.024	1437.172	807.400	280.572	220.017
75	936.584	569.217	207.906	191.758	193.776
80	482.422	246.257	149.369	125.147	117.073
85	108.999	90.833	54.500	28.259	24.222
90	4.037	38.352	14.130	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1783.62	N.A.	13.80
0-30	3823.51	N.A.	29.70
0-40	6342.53	N.A.	49.20
0-60	11024.13	N.A.	85.50
0-80	12794.74	N.A.	99.30
0-90	12886.97	N.A.	100.00
10-90	12431.68	N.A.	96.50
20-40	4558.92	N.A.	35.40
20-50	7195.73	N.A.	55.80
40-70	5975.83	N.A.	46.40
60-80	1770.62	N.A.	13.70
70-80	476.38	N.A.	3.70
80-90	92.23	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	12886.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	455.29
10-20	1328.33
20-30	2039.9
30-40	2519.02
40-50	2636.82
50-60	2044.78
60-70	1294.24
70-80	476.38
80-90	92.23
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	142	142	142	142	138	138	138	138	132	132	132	127	127	127	121	121	121	119
1	131	126	121	117	128	123	119	115	118	115	112	114	111	108	109	107	105	103
2	120	111	103	97	117	109	102	96	104	99	94	101	96	92	97	93	90	87
3	110	98	89	82	107	96	88	81	93	85	80	89	83	78	86	81	77	74
4	101	87	77	70	98	86	76	69	83	75	68	80	73	67	77	71	67	64
5	93	78	68	60	90	77	67	60	74	66	59	72	65	59	70	63	58	56
6	86	70	60	53	84	69	60	53	67	59	52	65	58	52	63	57	51	49
7	80	64	54	47	78	63	53	47	61	53	46	59	52	46	58	51	46	43
8	74	58	48	42	72	58	48	42	56	47	41	54	47	41	53	46	41	39
9	69	54	44	38	67	53	44	37	51	43	37	50	43	37	49	42	37	35
10	65	49	40	34	63	49	40	34	48	39	34	46	39	34	45	38	33	31

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UGR TABLE - CORRECTED

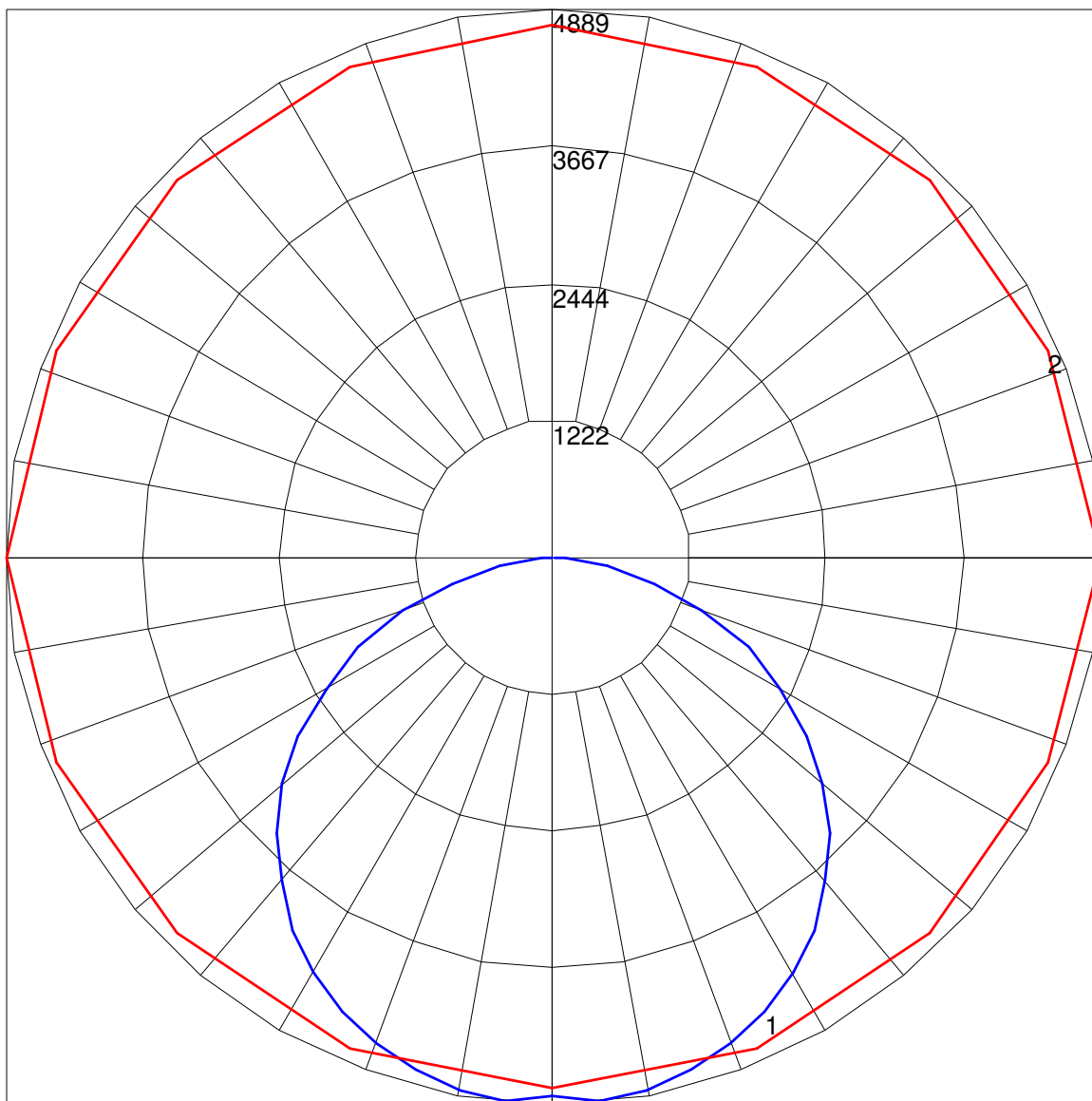
Reflectances

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	21.0	22.5	21.3	22.8	23.2	16.4	18.0	16.8	18.3	18.6
	3H	22.7	24.1	23.1	24.5	24.8	17.0	18.4	17.4	18.8	19.1
	4H	23.2	24.5	23.6	24.8	25.2	17.1	18.4	17.5	18.8	19.2
	6H	23.5	24.7	23.9	25.0	25.4	17.2	18.4	17.6	18.8	19.2
	8H	23.5	24.7	24.0	25.1	25.5	17.2	18.4	17.6	18.7	19.1
	12H	23.5	24.6	24.0	25.0	25.4	17.2	18.3	17.6	18.7	19.1
4H	2H	21.0	22.4	21.4	22.7	23.1	17.1	18.5	17.5	18.8	19.2
	3H	23.1	24.1	23.5	24.5	24.9	17.9	18.9	18.3	19.3	19.7
	4H	23.6	24.5	24.0	24.9	25.4	18.0	18.9	18.4	19.4	19.8
	6H	23.9	24.7	24.3	25.2	25.6	18.1	18.9	18.5	19.4	19.8
	8H	24.0	24.8	24.4	25.2	25.7	18.1	18.9	18.6	19.3	19.8
	12H	24.0	24.7	24.5	25.2	25.7	18.1	18.8	18.6	19.3	19.7
8H	4H	23.5	24.3	24.0	24.7	25.2	18.3	19.1	18.7	19.5	20.0
	6H	23.8	24.5	24.3	25.0	25.5	18.4	19.1	18.9	19.6	20.0
	8H	24.0	24.5	24.5	25.1	25.5	18.5	19.0	19.0	19.6	20.0
	12H	24.0	24.5	24.5	25.0	25.6	18.5	19.0	19.0	19.5	20.0
12H	4H	23.5	24.2	24.0	24.7	25.1	18.3	19.0	18.8	19.5	20.0
	6H	23.8	24.4	24.4	24.9	25.4	18.5	19.0	19.0	19.5	20.1
	8H	23.9	24.5	24.5	25.0	25.5	18.5	19.0	19.0	19.5	20.1

Maximum UGR = 25.7

POLAR GRAPH



Maximum Candela = 4888.807 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.)