



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L210-840-SCHA118-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20910.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 16-OCT-2020

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] LED 22" ARRAYS 1x8' NARROW INDUSTRIAL LUMINAIRE

[MORE] WHITE HOUSING w/WHITE REFL & CLEAR ACRYLIC LENS

[LUMCAT] GLN-8-L210/840-DIM-UNV-SCHA118

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19313
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	136.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.82 ft
Luminous Width (90-270)	0.56 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	39358	39969	24137
55	36843	23315	24411
65	30601	21597	9562
75	17709	7655	8232
85	2706	3428	3428

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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	7911.502	7911.502	7911.502	7911.502	7911.502
5	8027.941	7891.047	7853.283	7834.401	7828.108
10	7952.413	7818.667	7774.609	7774.609	7774.609
15	7804.505	7691.214	7681.773	7651.877	7636.142
20	7606.246	7514.983	7494.528	7456.764	7458.338
25	7332.459	7285.254	7255.358	7242.770	7230.182
30	6995.732	6956.395	6942.233	6956.395	6948.527
35	6599.213	6559.875	6581.904	6629.109	6624.388
40	6114.578	6057.932	6158.636	5626.796	4397.902
45	5570.151	5549.696	5656.693	3386.148	3416.045
50	4981.666	4956.490	3359.399	3157.992	3183.168
55	4229.538	4294.051	2676.505	2797.663	2802.384
60	3469.543	3505.733	2328.764	2110.049	1518.417
65	2588.389	2124.210	1826.821	813.494	808.773
70	1751.293	1214.733	607.367	626.249	629.396
75	917.344	686.041	396.519	415.401	426.416
80	341.447	195.113	209.274	213.994	215.568
85	47.205	53.499	59.793	59.793	59.793
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2920.47	N.A.	15.10
0-30	6269.05	N.A.	32.50
0-40	10328.69	N.A.	53.50
0-60	16969.98	N.A.	87.90
0-80	19221.35	N.A.	99.50
0-90	19313.18	N.A.	100.00
10-90	18563.35	N.A.	96.10
20-40	7408.22	N.A.	38.40
20-50	11110.93	N.A.	57.50
40-70	8307.96	N.A.	43.00
60-80	2251.37	N.A.	11.70
70-80	584.71	N.A.	3.00
80-90	91.83	N.A.	0.50
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	19313.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	749.83
10-20	2170.64
20-30	3348.59
30-40	4059.63
40-50	3702.71
50-60	2938.58
60-70	1666.66
70-80	584.71
80-90	91.83
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	186	179	173	167	181	175	169	164	168	163	159	161	158	154	155	153	150	146
2	171	158	148	140	166	155	146	138	149	142	135	144	138	132	139	134	129	126
3	157	141	128	119	153	138	127	117	133	124	115	129	120	113	125	118	112	108
4	144	126	112	102	141	124	111	101	120	109	100	116	106	99	112	104	97	94
5	133	113	99	89	130	111	98	88	108	96	87	105	94	86	102	93	86	82
6	123	102	88	78	120	101	87	78	98	86	77	95	85	76	93	83	76	73
7	115	93	79	69	112	92	79	69	89	77	69	87	76	68	85	75	68	65
8	107	85	72	62	104	84	71	62	82	70	62	80	69	61	78	68	61	58
9	100	78	65	56	98	77	65	56	75	64	56	74	63	55	72	62	55	52
10	94	72	60	51	92	72	59	51	70	59	51	68	58	51	67	57	50	47

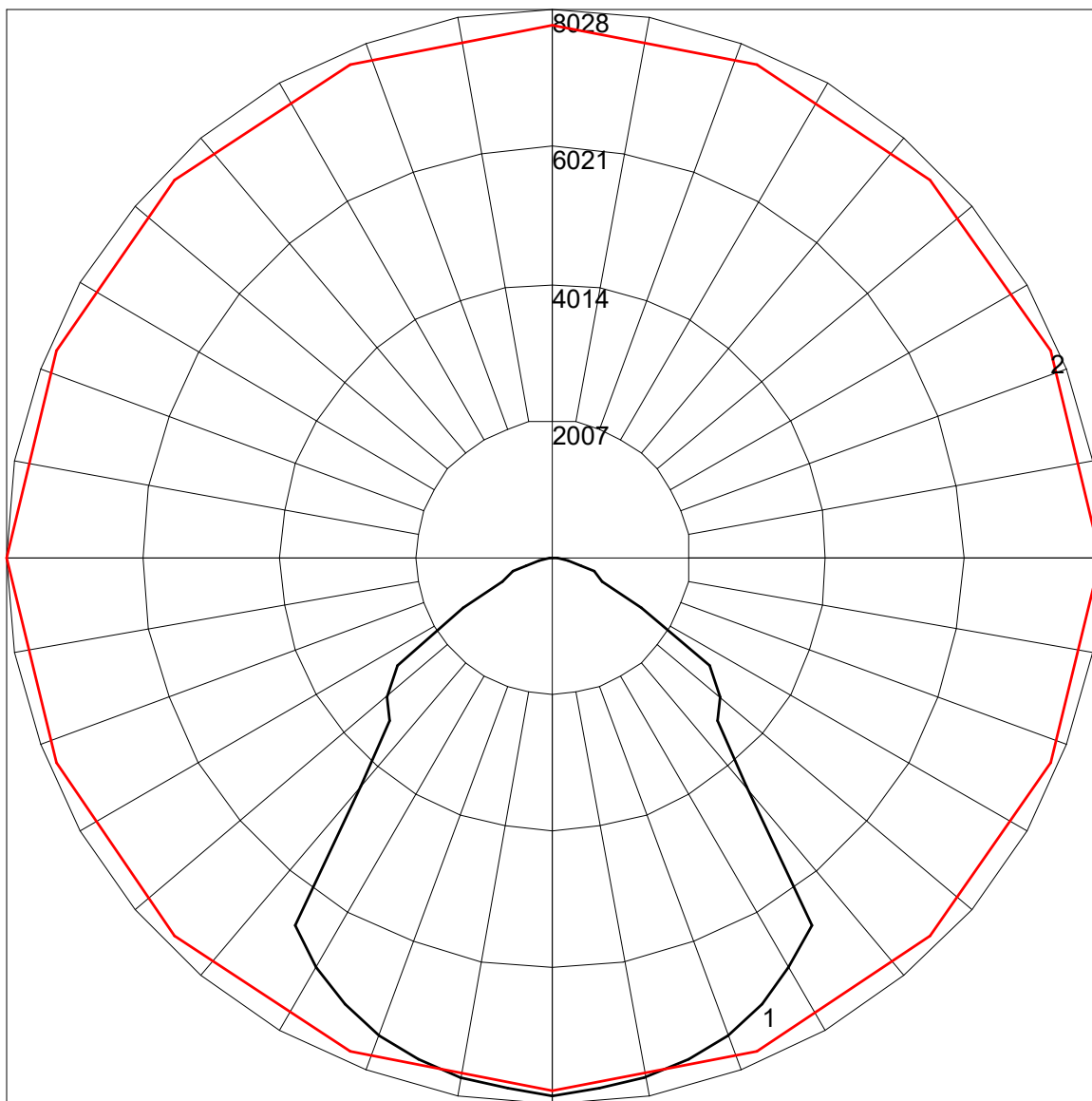
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UGR TABLE - CORRECTED

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	23.7	25.2	24.1	25.5	25.8	20.3	21.8	20.7	22.1	22.5
	3H	24.7	26.1	25.1	26.4	26.7	20.7	22.0	21.1	22.4	22.7
	4H	25.0	26.2	25.4	26.6	27.0	20.9	22.1	21.3	22.5	22.9
	6H	25.1	26.2	25.5	26.6	27.0	21.0	22.1	21.4	22.5	22.9
	8H	25.0	26.1	25.5	26.5	26.9	21.0	22.1	21.4	22.5	22.9
	12H	25.0	26.1	25.5	26.5	26.9	21.0	22.0	21.4	22.4	22.8
4H	2H	23.9	25.1	24.3	25.5	25.9	21.0	22.3	21.4	22.6	23.0
	3H	24.9	26.0	25.3	26.4	26.8	21.4	22.5	21.9	22.9	23.3
	4H	25.2	26.2	25.7	26.6	27.0	21.6	22.6	22.1	23.0	23.4
	6H	25.4	26.2	25.8	26.6	27.1	21.8	22.6	22.3	23.1	23.5
	8H	25.4	26.1	25.8	26.6	27.0	21.8	22.6	22.3	23.0	23.5
	12H	25.3	26.0	25.8	26.5	27.0	21.8	22.5	22.3	23.0	23.4
8H	4H	25.2	25.9	25.7	26.4	26.9	21.7	22.5	22.2	22.9	23.4
	6H	25.3	25.9	25.8	26.4	26.9	21.9	22.5	22.4	23.0	23.5
	8H	25.3	25.9	25.8	26.4	26.9	22.0	22.5	22.5	23.0	23.5
	12H	25.3	25.8	25.8	26.3	26.8	22.0	22.5	22.5	23.0	23.5
12H	4H	25.2	25.8	25.7	26.3	26.8	21.7	22.4	22.2	22.9	23.3
	6H	25.3	25.8	25.8	26.3	26.8	21.9	22.5	22.4	22.9	23.5
	8H	25.3	25.8	25.8	26.3	26.8	22.0	22.5	22.5	23.0	23.5

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 8027.941 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)