

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 96-8-L130-940-HIAFR-(L120)-EMBSL10LST-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 19227.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 6-7-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4-44LED 22"ARRAYS 8'SUSPENDED ENCLOSED & GASKETED LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC LINEAR RIBBED DIFFUSER

[LUMCAT] 96-8-L130-940-HIAFR-(L120)-EM/BSL10LST-DIM-UNV (EM MODE ONLY)

[LAMPCAT] 9290007207

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1294
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	16
Total Luminaire Watts	78.83
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.35 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.18 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1007	787	758
55	864	672	654
65	642	549	581
75	404	466	501
85	166	371	427

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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	457.069	457.069	457.069	457.069	457.069
5	461.077	455.171	452.218	450.109	449.476
10	454.960	447.578	442.938	441.250	439.563
15	443.570	435.134	428.173	424.166	421.845
20	427.118	418.471	408.135	399.699	399.488
25	407.714	398.433	383.247	372.489	369.115
30	383.247	371.435	350.975	347.812	348.233
35	353.085	341.062	321.657	331.149	336.211
40	318.704	307.736	298.245	308.791	313.009
45	282.425	272.090	273.567	275.887	281.793
50	241.717	231.804	240.663	244.670	248.467
55	198.267	193.205	206.493	214.508	219.360
60	153.974	159.247	171.691	185.823	192.783
65	110.102	125.710	141.318	161.778	167.684
70	75.299	92.384	116.851	138.154	141.740
75	43.872	64.331	93.228	113.055	116.851
80	20.670	42.817	69.815	88.798	92.384
85	6.960	27.209	50.621	69.183	72.979
90	2.953	16.452	36.911	51.887	55.684
95	2.320	11.390	29.529	40.919	44.505
100	2.109	6.960	24.256	34.169	36.068
105	1.687	4.218	18.350	27.420	29.318
110	1.055	1.266	12.866	21.303	23.412
115	0.633	0.633	8.437	15.819	18.350
120	0.000	0.000	4.218	11.390	13.710
125	0.000	0.000	1.266	6.960	9.070
130	0.000	0.000	0.000	3.586	5.062
135	0.000	0.000	0.000	0.844	1.898
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 96-8-L130-940-HIAFR-(L120)-EMBSL10LST-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	164.12	N.A.	12.70
0-30	341.79	N.A.	26.40
0-40	551.09	N.A.	42.60
0-60	947.99	N.A.	73.30
0-80	1182.69	N.A.	91.40
0-90	1234.93	N.A.	95.40
10-90	1191.92	N.A.	92.10
20-40	386.97	N.A.	29.90
20-50	599.39	N.A.	46.30
40-70	538.14	N.A.	41.60
60-80	234.70	N.A.	18.10
70-80	93.46	N.A.	7.20
80-90	52.24	N.A.	4.00
90-110	46.73	N.A.	3.60
90-120	55.38	N.A.	4.30
90-130	58.44	N.A.	4.50
90-150	58.92	N.A.	4.60
90-180	58.92	N.A.	4.60
110-180	12.19	N.A.	0.90
0-180	1293.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.00
10-20	121.12
20-30	177.67
30-40	209.30
40-50	212.41
50-60	184.48
60-70	141.24
70-80	93.46
80-90	52.24
90-100	29.30
100-110	17.43
110-120	8.65
120-130	3.06
130-140	0.48
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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	95
1	107	102	97	93	104	99	95	91	94	90	87	89	86	84	85	83	81	78
2	97	89	81	76	94	86	80	74	82	77	72	78	73	70	74	71	67	65
3	89	78	69	63	86	76	68	62	72	66	60	69	63	59	66	61	57	55
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	59	53	49	47
5	75	62	53	46	72	60	52	46	58	50	45	55	49	44	53	47	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	43	38	48	42	38	36
7	64	50	42	36	62	49	41	35	47	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	35	31	40	35	30	28
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

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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

X=2H	Y=2H	9.2	10.8	9.7	11.2	11.6	11.0	12.5	11.5	13.0	13.4
	3H	10.4	11.8	10.8	12.2	12.7	13.3	14.7	13.8	15.1	15.6
	4H	10.7	12.0	11.1	12.4	12.9	14.4	15.7	14.8	16.1	16.6
	6H	10.8	12.0	11.3	12.5	13.0	15.4	16.6	15.9	17.1	17.6
	8H	10.8	12.0	11.3	12.4	13.0	15.9	17.1	16.4	17.6	18.1
	12H	10.8	11.9	11.3	12.4	12.9	16.5	17.6	17.0	18.1	18.6

UGR Viewed Endwise

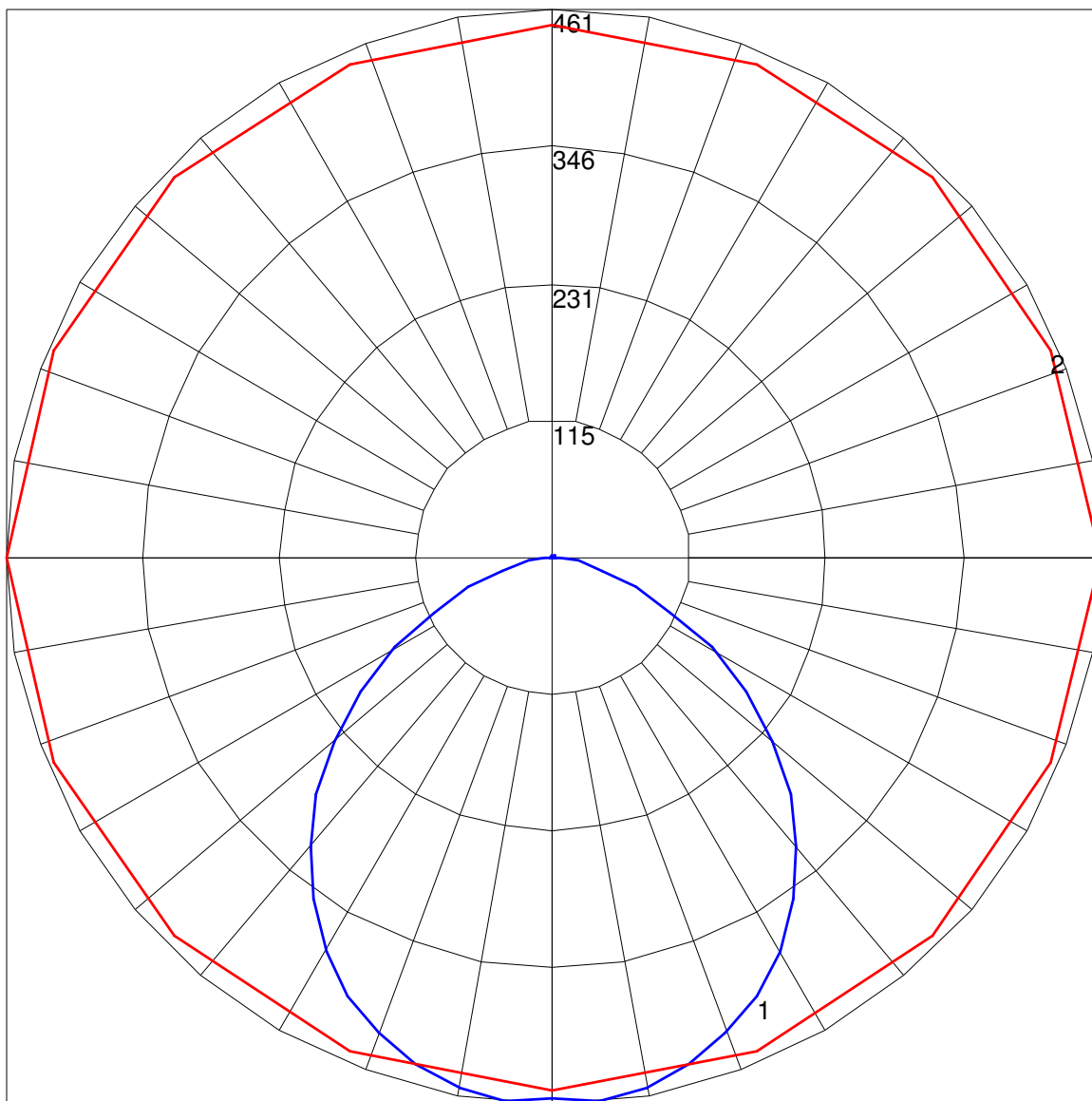
4H	2H	10.0	11.3	10.4	11.7	12.2	11.4	12.7	11.9	13.1	13.6
	3H	11.4	12.5	11.8	13.0	13.5	13.9	15.0	14.4	15.5	16.0
	4H	11.8	12.8	12.3	13.3	13.8	15.1	16.2	15.7	16.7	17.2
	6H	12.0	12.9	12.5	13.4	14.0	16.4	17.2	16.9	17.8	18.3
	8H	12.1	12.9	12.6	13.4	14.0	17.0	17.8	17.5	18.3	18.9
	12H	12.1	12.8	12.6	13.4	14.0	17.6	18.4	18.2	18.9	19.5

8H	4H	12.4	13.2	12.9	13.8	14.3	15.3	16.2	15.9	16.7	17.3
	6H	12.8	13.5	13.4	14.1	14.6	16.7	17.4	17.3	18.0	18.6
	8H	12.9	13.5	13.5	14.1	14.7	17.4	18.1	18.0	18.6	19.2
	12H	13.0	13.5	13.6	14.1	14.8	18.3	18.8	18.8	19.4	20.1

12H	4H	12.5	13.3	13.1	13.9	14.4	15.3	16.1	15.9	16.6	17.2
	6H	13.0	13.7	13.6	14.2	14.9	16.7	17.4	17.3	17.9	18.5
	8H	13.2	13.8	13.8	14.4	15.0	17.5	18.1	18.1	18.6	19.3

Maximum UGR = 20.1

POLAR GRAPH



Maximum Candela = 461.077 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.)