



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-935-AF-(L42)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 20112.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 12-01-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 4' NARROW LOW PROFILE WRAP LED LUMINAIRE
 [MORE] WITH FROSTED PRISMATIC ACRYLIC DIFFUSER
 [LUMCAT] 17-4-L55-935-AF-(L42)-DIM-UNV
 [LAMPCAT] HLM 90 CRI, 3500K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Manufacturing, Office, Direct
 [_SEARCH_MOUNTING] Pendant, Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3419
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	27.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.15 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3072	2862	2914
55	2543	2432	2543
65	1990	1974	2129
75	1494	1517	1769
85	724	994	1404

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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	1224.924	1224.924	1224.924	1224.924	1224.924
5	1238.865	1223.106	1213.409	1210.378	1208.560
10	1219.470	1203.711	1194.620	1192.801	1187.346
15	1190.983	1177.043	1167.951	1166.133	1162.496
20	1147.950	1134.010	1125.524	1130.979	1124.312
25	1092.189	1082.491	1073.400	1082.491	1076.430
30	1023.700	1017.639	1010.366	1020.063	1019.457
35	940.058	942.483	932.785	950.362	953.392
40	840.052	844.295	842.476	866.114	873.387
45	732.773	738.834	753.380	770.351	782.473
50	615.190	622.463	653.374	666.708	682.467
55	499.425	508.516	547.307	569.732	587.915
60	391.539	404.874	447.300	470.332	493.364
65	295.170	313.959	355.174	379.417	397.600
70	213.347	232.742	270.926	299.412	312.747
75	143.039	159.404	196.376	230.923	241.833
80	82.429	99.400	132.736	166.677	176.981
85	29.093	45.457	74.550	113.340	115.765
90	0.000	13.940	41.215	71.520	78.793
95	0.000	13.940	40.002	65.459	74.550
100	0.000	14.546	39.396	62.428	69.701
105	0.000	13.940	38.790	58.185	64.853
110	0.000	15.759	37.578	55.761	61.216
115	0.000	14.546	35.760	52.731	58.185
120	0.000	16.365	33.941	48.488	53.943
125	0.000	14.546	30.911	44.245	49.094
130	0.000	13.940	27.274	38.790	43.639
135	0.000	13.334	25.456	34.548	38.184
140	0.000	12.728	22.426	30.911	34.548
145	0.000	0.000	19.395	27.881	30.305
150	0.000	0.000	17.577	22.426	26.062
155	0.000	0.000	15.759	20.607	19.395
160	0.000	0.000	13.940	16.971	16.971
165	0.000	0.000	0.000	13.334	15.759
170	0.000	0.000	0.000	0.000	13.334
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	446.11	N.A.	13.00
0-30	943.66	N.A.	27.60
0-40	1531.92	N.A.	44.80
0-60	2599.15	N.A.	76.00
0-80	3155.04	N.A.	92.30
0-90	3244.01	N.A.	94.90
10-90	3128.37	N.A.	91.50
20-40	1085.81	N.A.	31.80
20-50	1666.92	N.A.	48.80
40-70	1415.06	N.A.	41.40
60-80	555.89	N.A.	16.30
70-80	208.05	N.A.	6.10
80-90	88.97	N.A.	2.60
90-110	81.21	N.A.	2.40
90-120	114.09	N.A.	3.30
90-130	139.70	N.A.	4.10
90-150	167.98	N.A.	4.90
90-180	175.08	N.A.	5.10
110-180	93.87	N.A.	2.70
0-180	3419.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.64
10-20	330.47
20-30	497.55
30-40	588.26
40-50	581.11
50-60	486.12
60-70	347.83
70-80	208.05
80-90	88.97
90-100	43.01
100-110	38.20
110-120	32.88
120-130	25.62
130-140	17.95
140-150	10.33
150-160	5.38
160-170	1.66
170-180	0.06

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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	114	114	114	114	108	108	108	103	103	103	97	97	97	95
1	108	103	99	95	104	100	96	93	95	92	89	90	88	85	86	84	82	79
2	98	90	83	78	95	88	81	76	83	78	74	79	75	71	75	72	69	67
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	70	62	55	79	69	61	55	66	59	53	63	57	52	60	55	51	48
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	44	39	37
7	65	52	43	37	63	51	42	37	49	41	36	47	40	35	45	39	35	33
8	60	47	39	33	59	46	38	33	45	37	32	43	37	32	41	36	31	29
9	57	43	35	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	32	27	51	39	32	27	38	31	27	37	31	26	36	30	26	24

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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	13.8	15.3	14.2	15.7	16.1	15.2	16.7	15.6	17.1	17.5
	3H	15.1	16.4	15.5	16.9	17.3	17.0	18.3	17.4	18.7	19.2
	4H	15.5	16.8	16.0	17.2	17.7	17.7	19.0	18.2	19.5	20.0
	6H	15.7	16.9	16.2	17.4	17.9	18.5	19.6	18.9	20.1	20.6
	8H	15.8	16.9	16.3	17.4	17.9	18.8	19.9	19.3	20.4	20.9
	12H	15.8	16.9	16.3	17.4	17.9	19.1	20.1	19.6	20.6	21.2

UGR Viewed Endwise

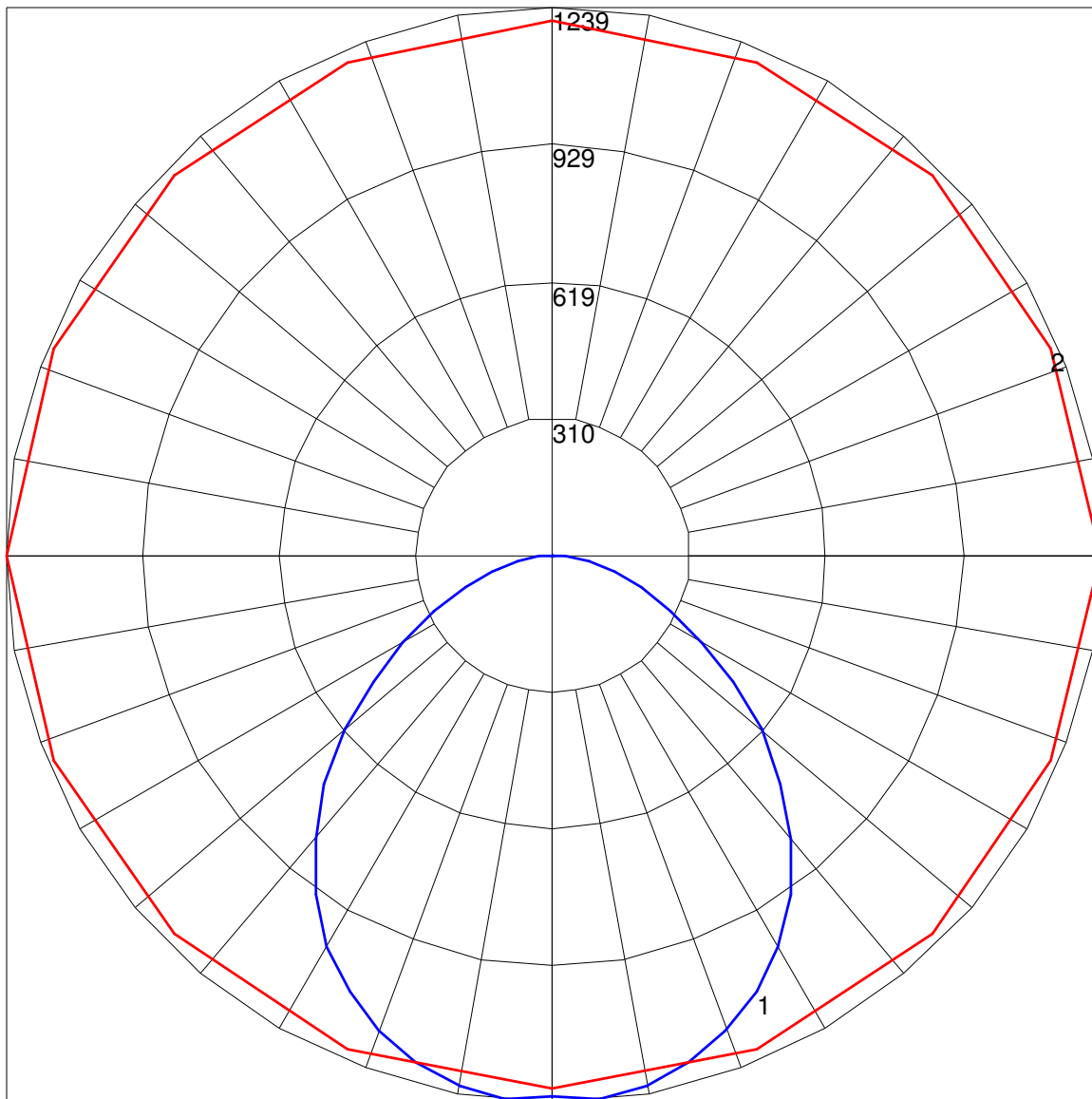
4H	2H	14.5	15.7	14.9	16.2	16.7	15.6	16.8	16.1	17.3	17.8
	3H	16.0	17.0	16.5	17.5	18.1	17.6	18.7	18.1	19.2	19.7
	4H	16.5	17.4	17.0	18.0	18.5	18.5	19.5	19.0	20.0	20.5
	6H	16.8	17.7	17.4	18.2	18.8	19.4	20.2	19.9	20.8	21.3
	8H	16.9	17.7	17.5	18.2	18.8	19.8	20.6	20.3	21.1	21.7
	12H	17.0	17.7	17.5	18.2	18.8	20.2	20.9	20.7	21.5	22.0

8H	4H	16.9	17.7	17.4	18.2	18.8	18.7	19.5	19.2	20.0	20.6
	6H	17.3	18.0	17.9	18.6	19.2	19.7	20.4	20.3	20.9	21.5
	8H	17.5	18.1	18.1	18.7	19.3	20.2	20.8	20.8	21.4	22.0
	12H	17.6	18.1	18.1	18.7	19.3	20.7	21.3	21.3	21.8	22.5

12H	4H	17.0	17.7	17.5	18.2	18.8	18.7	19.4	19.3	20.0	20.6
	6H	17.5	18.1	18.1	18.6	19.3	19.7	20.3	20.3	20.9	21.5
	8H	17.7	18.2	18.2	18.8	19.4	20.3	20.8	20.9	21.4	22.1

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 1238.865 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.)