



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S14-L60-835-WPR-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20960.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 02-DEC-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-22"ARRAY 1X4' TROFFER LUMINAIRE w/WHITE REFL &

[MORE] INNER FROST ACRYLIC LENS & WHITE PERF CENTER BASKET w/WHITE

[MORE] OVERLAY

[LUMCAT] DIG-S14-L60-835-WPR-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6016
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	71.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.90 ft
Luminous Width (90-270)	0.90 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5932	6862	6642
55	5171	5885	5766
65	4081	4639	4625
75	2925	3021	2877
85	1281	1139	1068

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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	2316.170	2316.170	2316.170	2316.170	2316.170
5	2344.367	2310.128	2300.058	2294.015	2296.030
10	2300.058	2271.861	2269.847	2269.847	2271.861
15	2231.580	2209.425	2215.467	2227.551	2237.622
20	2144.975	2126.848	2151.017	2177.200	2195.326
25	2036.216	2028.159	2072.469	2110.736	2132.891
30	1887.175	1903.288	1971.766	2036.216	2060.384
35	1736.121	1768.346	1852.936	1921.414	1953.639
40	1564.925	1607.221	1726.050	1794.528	1796.542
45	1361.505	1436.025	1574.996	1564.925	1524.644
50	1168.155	1246.704	1379.632	1303.097	1288.999
55	962.721	1081.551	1095.649	1069.466	1073.494
60	757.287	884.173	853.962	847.920	853.962
65	559.909	692.837	636.443	634.429	634.429
70	396.770	416.911	439.065	431.009	431.009
75	245.715	235.645	253.772	235.645	241.687
80	130.914	114.801	108.759	98.689	90.633
85	36.253	32.225	32.225	30.211	30.211
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	846.64	N.A.	14.10
0-30	1802.25	N.A.	30.00
0-40	2956.62	N.A.	49.10
0-60	5069.67	N.A.	84.30
0-80	5969.44	N.A.	99.20
0-90	6016.3	N.A.	100.00
10-90	5797.18	N.A.	96.40
20-40	2109.99	N.A.	35.10
20-50	3268.39	N.A.	54.30
40-70	2744.6	N.A.	45.60
60-80	899.77	N.A.	15.00
70-80	268.22	N.A.	4.50
80-90	46.86	N.A.	0.80
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	6016.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	219.12
10-20	627.52
20-30	955.61
30-40	1154.38
40-50	1158.4
50-60	954.65
60-70	631.55
70-80	268.22
80-90	46.86
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	262	262	262	262	256	256	256	256	245	245	245	235	235	235	225	225	225	220
1	242	232	224	216	236	227	220	213	218	212	206	210	204	200	202	198	194	189
2	221	204	190	179	216	200	187	177	193	182	172	186	177	169	179	171	165	160
3	203	181	164	150	197	177	161	149	171	157	146	165	153	144	159	150	141	137
4	186	161	142	128	181	158	141	127	152	137	126	147	134	124	143	131	122	118
5	171	144	125	111	167	142	124	110	137	121	109	133	119	108	129	117	107	102
6	158	130	111	97	154	128	110	97	124	108	96	120	106	95	117	104	94	90
7	147	118	99	86	143	116	98	86	113	97	85	110	95	84	107	94	84	80
8	137	108	89	77	133	106	89	77	103	87	76	101	86	76	98	85	75	71
9	128	99	81	69	125	98	81	69	95	80	69	93	79	68	91	78	68	64
10	120	91	74	63	117	90	74	63	88	73	62	86	72	62	84	71	62	58

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UGR TABLE - CORRECTED

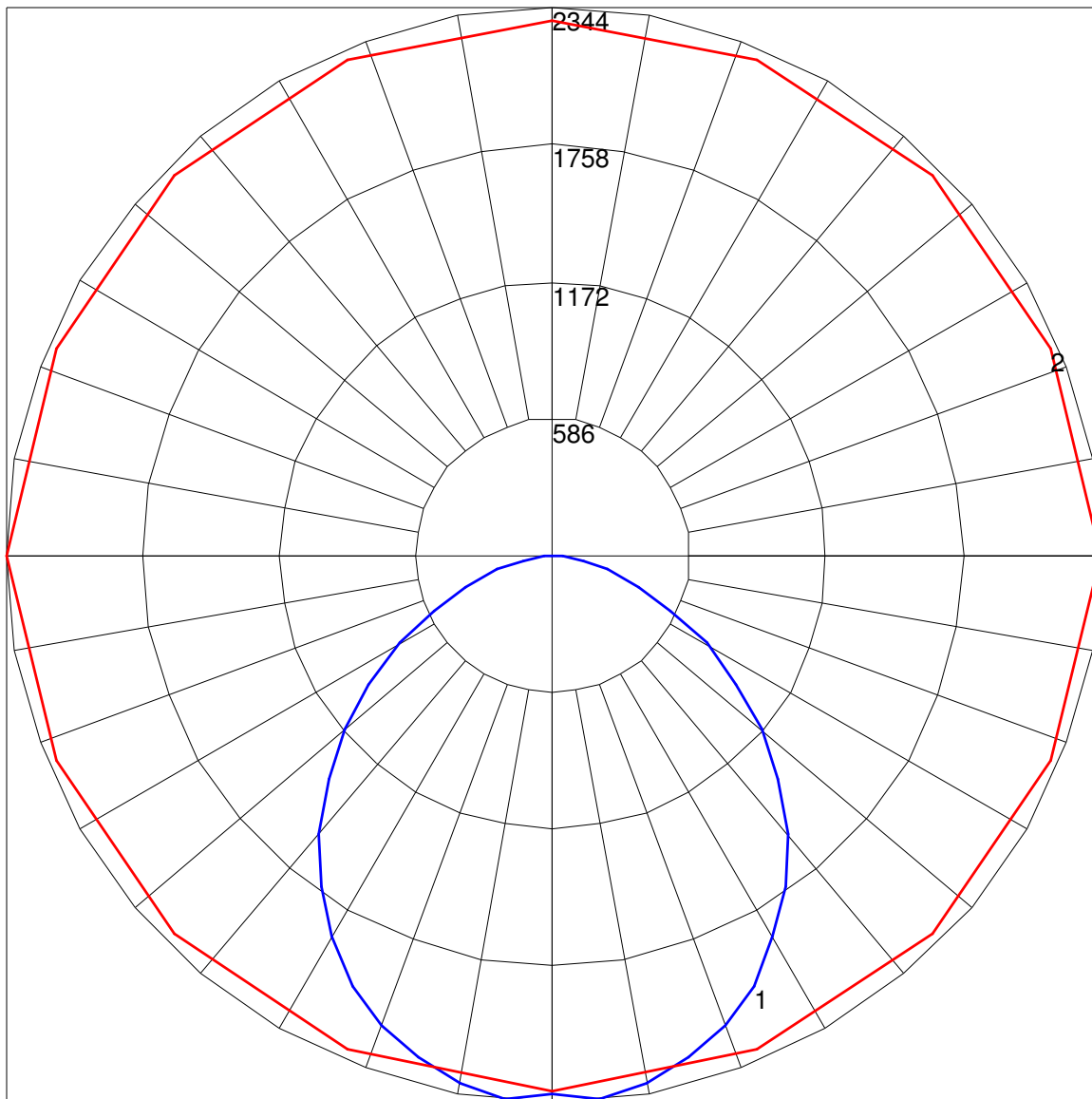
Reflectances

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	15.3	16.9	15.7	17.2	17.5	15.3	16.9	15.7	17.2	17.5
	3H	16.5	17.9	16.9	18.3	18.6	16.6	18.0	17.0	18.3	18.7
	4H	16.8	18.2	17.2	18.5	18.9	16.9	18.3	17.3	18.6	19.0
	6H	17.1	18.3	17.5	18.7	19.0	17.1	18.3	17.5	18.7	19.0
	8H	17.1	18.3	17.5	18.7	19.1	17.1	18.2	17.5	18.6	19.0
	12H	17.1	18.2	17.5	18.6	19.0	17.1	18.2	17.5	18.6	19.0
4H	2H	15.8	17.1	16.2	17.5	17.9	15.8	17.1	16.2	17.5	17.9
	3H	17.2	18.3	17.6	18.7	19.1	17.3	18.4	17.7	18.8	19.2
	4H	17.6	18.6	18.0	19.0	19.4	17.7	18.7	18.1	19.1	19.5
	6H	17.9	18.7	18.3	19.2	19.6	17.9	18.7	18.3	19.2	19.6
	8H	17.9	18.7	18.4	19.2	19.6	17.9	18.7	18.3	19.1	19.6
	12H	18.0	18.7	18.4	19.2	19.6	17.9	18.6	18.4	19.1	19.5
8H	4H	17.7	18.6	18.2	19.0	19.5	17.8	18.6	18.3	19.1	19.5
	6H	18.1	18.7	18.6	19.2	19.7	18.0	18.7	18.5	19.2	19.7
	8H	18.2	18.7	18.7	19.3	19.7	18.1	18.7	18.6	19.2	19.7
	12H	18.2	18.7	18.7	19.2	19.8	18.1	18.6	18.6	19.1	19.7
12H	4H	17.7	18.5	18.2	18.9	19.4	17.8	18.5	18.3	19.0	19.5
	6H	18.1	18.7	18.6	19.1	19.7	18.0	18.6	18.6	19.1	19.6
	8H	18.2	18.7	18.7	19.2	19.8	18.1	18.6	18.6	19.1	19.7

Maximum UGR = 19.8

POLAR GRAPH



Maximum Candela = 2344.367 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.)