



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S14-L47-835-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-L47-835-WPR-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4739
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	58.3
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	4673	5405	5232
55	4073	4635	4542
65	3215	3654	3643
75	2304	2379	2266
85	1009	897	841

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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	1824.523	1824.523	1824.523	1824.523	1824.523
5	1846.735	1819.764	1811.831	1807.071	1808.658
10	1811.831	1789.619	1788.033	1788.033	1789.619
15	1757.889	1740.437	1745.196	1754.715	1762.648
20	1689.667	1675.388	1694.427	1715.052	1729.331
25	1603.994	1597.648	1632.552	1662.696	1680.148
30	1486.590	1499.282	1553.225	1603.994	1623.032
35	1367.599	1392.984	1459.619	1513.561	1538.946
40	1232.743	1266.061	1359.667	1413.609	1415.195
45	1072.502	1131.204	1240.676	1232.743	1201.012
50	920.194	982.070	1086.781	1026.493	1015.387
55	758.367	851.973	863.079	842.454	845.627
60	596.540	696.492	672.694	667.934	672.694
65	441.059	545.770	501.347	499.761	499.761
70	312.549	328.414	345.866	339.520	339.520
75	193.558	185.625	199.904	185.625	190.385
80	103.125	90.433	85.673	77.741	71.394
85	28.558	25.385	25.385	23.798	23.798
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	666.92	N.A.	14.10
0-30	1419.69	N.A.	30.00
0-40	2329.03	N.A.	49.10
0-60	3993.55	N.A.	84.30
0-80	4702.32	N.A.	99.20
0-90	4739.24	N.A.	100.00
10-90	4566.63	N.A.	96.40
20-40	1662.11	N.A.	35.10
20-50	2574.62	N.A.	54.30
40-70	2162.01	N.A.	45.60
60-80	708.77	N.A.	15.00
70-80	211.29	N.A.	4.50
80-90	36.91	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	4739.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.60
10-20	494.32
20-30	752.76
30-40	909.34
40-50	912.51
50-60	752.01
60-70	497.49
70-80	211.29
80-90	36.91
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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UGR TABLE - CORRECTED

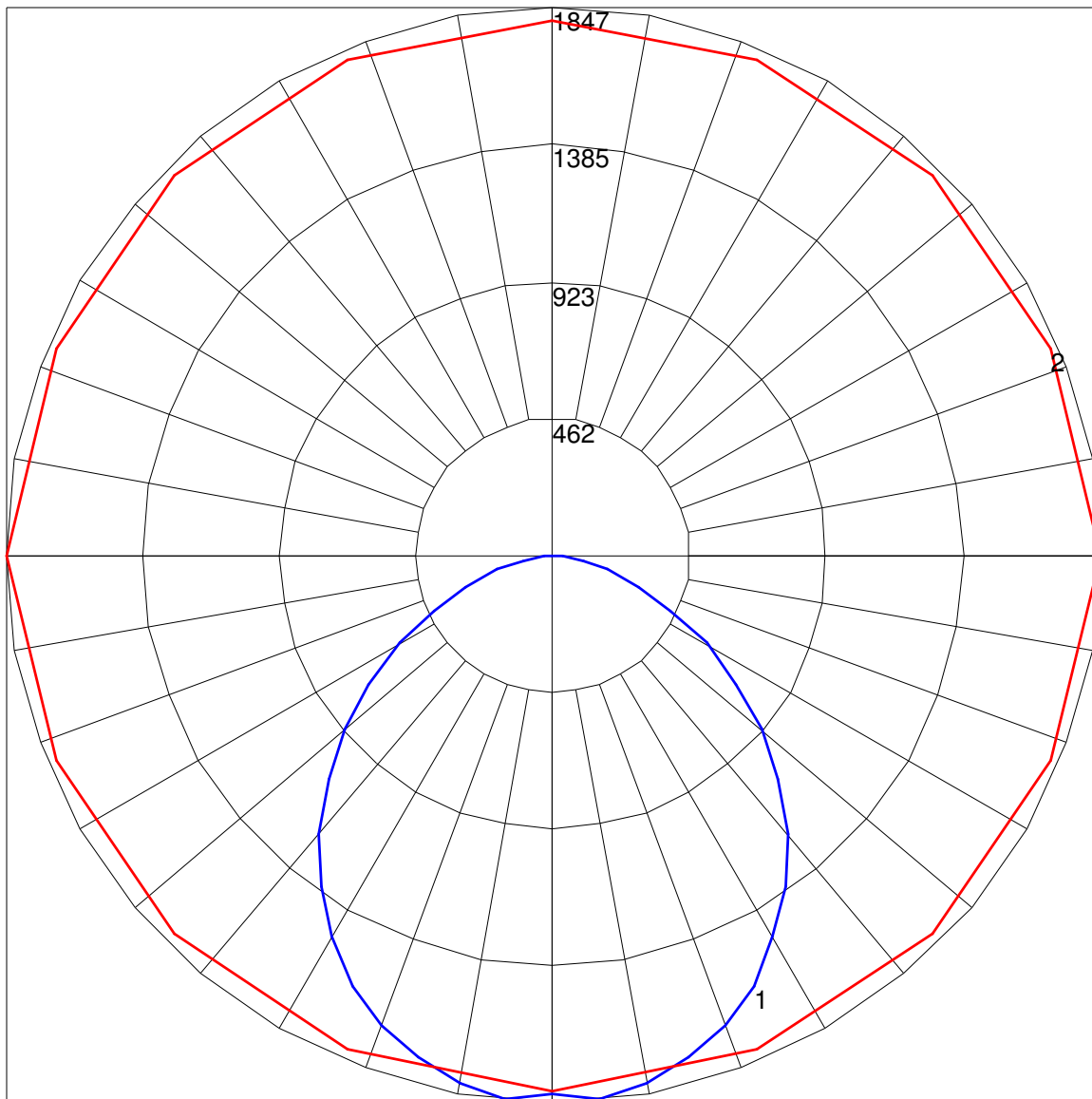
Reflectances

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	17.2	18.8	17.6	19.1	19.4	17.2	18.8	17.6	19.1	19.4
	3H	18.4	19.8	18.8	20.2	20.5	18.5	19.9	18.9	20.2	20.6
	4H	18.7	20.1	19.1	20.4	20.8	18.8	20.2	19.2	20.5	20.9
	6H	19.0	20.2	19.4	20.6	20.9	19.0	20.2	19.4	20.6	20.9
	8H	19.0	20.2	19.4	20.6	21.0	19.0	20.1	19.4	20.5	20.9
	12H	19.0	20.1	19.4	20.5	20.9	19.0	20.1	19.4	20.5	20.9
4H	2H	17.7	19.0	18.1	19.4	19.8	17.7	19.0	18.1	19.4	19.8
	3H	19.1	20.2	19.5	20.6	21.0	19.2	20.3	19.6	20.7	21.1
	4H	19.5	20.5	19.9	20.9	21.3	19.6	20.6	20.0	21.0	21.4
	6H	19.8	20.6	20.2	21.1	21.5	19.8	20.6	20.2	21.1	21.5
	8H	19.8	20.6	20.3	21.1	21.5	19.8	20.6	20.2	21.0	21.5
	12H	19.9	20.6	20.3	21.1	21.5	19.8	20.5	20.3	21.0	21.4
8H	4H	19.6	20.5	20.1	20.9	21.4	19.7	20.5	20.2	21.0	21.4
	6H	20.0	20.6	20.5	21.1	21.6	19.9	20.6	20.4	21.1	21.6
	8H	20.1	20.6	20.6	21.2	21.6	20.0	20.6	20.5	21.1	21.6
	12H	20.1	20.6	20.6	21.1	21.7	20.0	20.5	20.5	21.0	21.6
12H	4H	19.6	20.4	20.1	20.8	21.3	19.7	20.4	20.2	20.9	21.4
	6H	20.0	20.6	20.5	21.0	21.6	19.9	20.5	20.5	21.0	21.5
	8H	20.1	20.6	20.6	21.1	21.7	20.0	20.5	20.5	21.0	21.6

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 1846.735 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.)