



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L32-830-WPR-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM 101511920CHI-008
 [TESTLAB]Intertek
 [ISSUE DATE] 06-29-2022
 [MANUFACT]WILLIAMS INDOOR
 [OTHER]H.E. WILLIAMS INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2x2' RECESSED LED TROFFER
 [MORE] WITH PERFORATED CENTER BASKET W/OVERLAY
 [LUMCAT]DIG-S22-L32-830-WPR-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 3000K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Educational, Office, Direct, Indirect
 [_SEARCH_MOUNTING] Ceiling, Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	25.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2101	2394	2706
55	1879	2414	2986
65	1585	2527	3347
75	1298	2013	2004
85	980	1126	1177

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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>
0.0	861.388	861.388	861.388	861.388	861.388
2.5	858.919	859.004	860.111	861.814	861.729
5.0	854.918	855.429	857.472	859.856	859.685
7.5	848.618	849.469	852.194	855.599	855.854
10.0	840.275	841.467	845.042	849.640	850.236
12.5	828.952	831.591	836.018	842.403	843.510
15.0	815.160	817.544	825.206	833.209	835.507
17.5	799.410	802.986	812.521	823.078	826.228
20.0	781.362	786.044	797.878	811.329	815.756
22.5	761.866	767.400	782.128	798.304	804.263
25.0	740.072	746.712	764.676	784.597	791.067
27.5	717.171	724.663	745.435	768.847	777.020
30.0	691.886	701.761	725.514	751.480	761.951
32.5	665.069	675.710	704.145	733.431	745.606
35.0	636.378	648.893	681.159	714.446	728.494
37.5	606.241	620.799	656.896	694.695	710.615
40.0	575.082	591.428	631.866	674.093	692.567
42.5	542.646	561.290	606.411	653.235	674.093
45.0	509.188	529.961	580.360	631.866	655.959
47.5	475.219	497.950	553.798	610.668	638.081
50.0	440.399	465.514	527.236	589.555	620.458
52.5	405.154	433.418	500.760	568.952	603.602
55.0	369.483	401.408	474.623	548.605	587.086
57.5	333.556	369.227	448.317	528.428	570.399
60.0	298.140	336.365	421.670	507.570	551.500
62.5	263.405	304.695	394.597	481.775	523.490
65.0	229.692	273.707	366.077	446.189	484.925
67.5	198.022	242.803	335.173	397.236	418.009
70.0	168.481	212.325	294.735	319.168	310.485
72.5	140.982	181.421	243.058	226.117	222.115
75.0	115.187	150.007	178.612	171.375	177.760
77.5	91.008	117.145	122.678	132.895	137.236
80.0	68.703	82.921	89.136	95.691	99.352
82.5	47.420	51.847	58.657	62.489	64.532
85.0	29.286	30.648	33.628	34.990	35.160
87.5	15.324	14.643	14.643	14.643	14.388
90.0	2.384	2.299	1.958	1.873	1.788
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	314.40	N.A.	12.40
0-30	667.18	N.A.	26.30
0-40	1093.79	N.A.	43.10
0-60	1968.4	N.A.	77.60
0-80	2495.9	N.A.	98.40
0-90	2536.64	N.A.	100.00
10-90	2455.18	N.A.	96.80
20-40	779.38	N.A.	30.70
20-50	1228.19	N.A.	48.40
40-70	1225.98	N.A.	48.30
60-80	527.50	N.A.	20.80
70-80	176.13	N.A.	6.90
80-90	40.75	N.A.	1.60
90-110	0.28	N.A.	0.00
90-120	0.28	N.A.	0.00
90-130	0.28	N.A.	0.00
90-150	0.28	N.A.	0.00
90-180	0.28	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2536.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.46
10-20	232.94
20-30	352.77
30-40	426.61
40-50	448.80
50-60	425.81
60-70	351.37
70-80	176.13
80-90	40.75
90-100	0.28
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	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

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UGR TABLE - CORRECTED

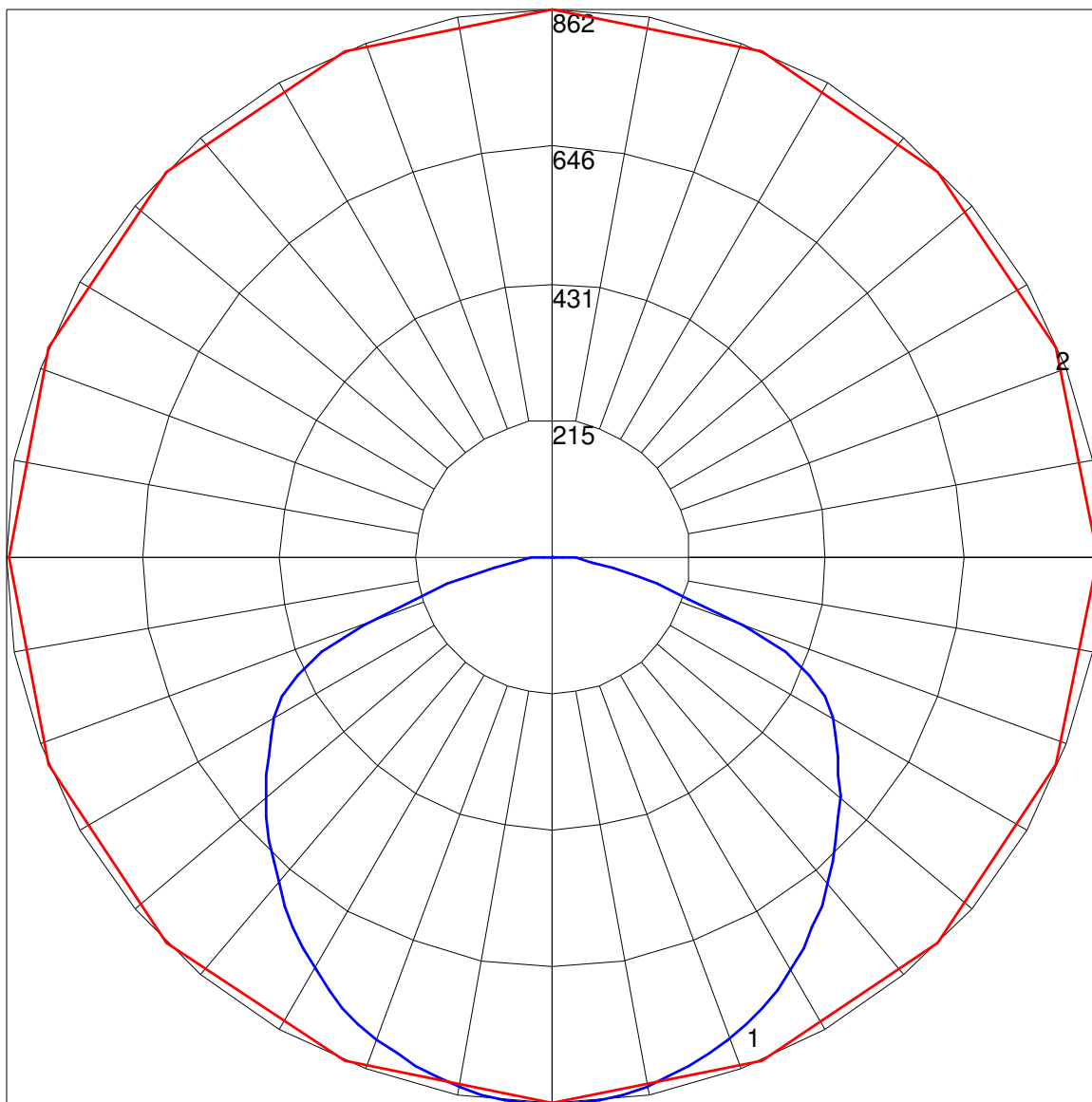
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	13.9	15.6	14.3	15.9	16.2	16.7	18.3	17.0	18.7	19.0
	3H	15.5	17.0	15.9	17.4	17.7	18.8	20.3	19.2	20.6	21.0
	4H	16.1	17.5	16.5	17.9	18.2	19.2	20.6	19.6	21.0	21.4
	6H	16.5	17.8	16.9	18.2	18.6	19.5	20.8	19.9	21.2	21.6
	8H	16.6	17.9	17.0	18.2	18.6	19.6	20.9	20.0	21.2	21.6
	12H	16.7	17.9	17.1	18.3	18.7	19.6	20.8	20.1	21.2	21.7
4H	2H	15.1	16.6	15.5	16.9	17.3	17.2	18.6	17.6	19.0	19.3
	3H	17.0	18.2	17.4	18.6	19.0	19.5	20.7	19.9	21.1	21.5
	4H	17.6	18.7	18.1	19.1	19.5	20.0	21.1	20.5	21.5	21.9
	6H	18.1	19.0	18.5	19.5	19.9	20.4	21.4	20.9	21.8	22.2
	8H	18.2	19.1	18.7	19.5	20.0	20.5	21.4	21.0	21.8	22.3
	12H	18.3	19.1	18.8	19.6	20.0	20.6	21.4	21.1	21.9	22.3
8H	4H	18.1	19.0	18.6	19.4	19.9	20.2	21.1	20.7	21.5	22.0
	6H	18.7	19.4	19.2	19.9	20.3	20.7	21.4	21.2	21.9	22.4
	8H	18.8	19.5	19.3	20.0	20.5	20.8	21.5	21.3	22.0	22.5
	12H	19.0	19.5	19.5	20.0	20.6	20.9	21.5	21.4	22.0	22.6
12H	4H	18.1	18.9	18.6	19.4	19.9	20.2	21.0	20.7	21.5	21.9
	6H	18.7	19.4	19.2	19.8	20.4	20.7	21.4	21.2	21.8	22.4
	8H	18.9	19.5	19.4	20.0	20.6	20.9	21.5	21.4	22.0	22.5

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 861.814 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)