

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L32-835-WPR-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM 101511920CHI-008
[TESTLAB]Intertek
[ISSUE DATE] 08-22-2023
[MANUFACT]WILLIAMS INDOOR
[OTHER]H.E. WILLIAMS INC. - CARTHAGE, MO.64836
[LUMINAIRE] 2x2' RECESSED LED TROFFER
[MORE] WITH WHITE PERFORATED ROUND
[LUMCAT] DIG-S22-L32-835-WPR-DIM-UNV
[LAMPCAT] HLM 80 CRI, 3500K CCT
[_SEARCH_SOURCE TYPE] 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	2508
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	24.42
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	2077	2367	2676
55	1858	2387	2952
65	1568	2498	3310
75	1284	1991	1981
85	969	1113	1164

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DIG-S22-L32-835-WPR-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	851.705	851.705	851.705	851.705	851.705
2.5	849.264	849.348	850.442	852.126	852.041
5.0	845.307	845.812	847.833	850.189	850.021
7.5	839.078	839.920	842.614	845.981	846.233
10.0	830.829	832.007	835.543	840.088	840.677
12.5	819.633	822.243	826.620	832.933	834.027
15.0	805.996	808.353	815.929	823.842	826.115
17.5	790.424	793.959	803.387	813.825	816.940
20.0	772.578	777.208	788.909	802.209	806.586
22.5	753.302	758.773	773.336	789.329	795.222
25.0	731.752	738.318	756.079	775.777	782.174
27.5	709.109	716.516	737.055	760.204	768.285
30.0	684.108	693.872	717.358	743.032	753.386
32.5	657.592	668.114	696.229	725.186	737.224
35.0	629.224	641.598	673.502	706.415	720.304
37.5	599.426	613.820	649.511	686.886	702.627
40.0	568.617	584.779	624.763	666.515	684.781
42.5	536.545	554.980	599.594	645.891	666.515
45.0	503.464	524.003	573.836	624.763	648.585
47.5	469.877	492.352	547.573	603.803	630.908
50.0	435.449	460.281	521.309	582.927	613.483
52.5	400.599	428.546	495.130	562.556	596.816
55.0	365.329	396.895	469.288	542.438	580.486
57.5	329.806	365.076	443.277	522.488	563.987
60.0	294.788	332.584	416.930	501.864	545.300
62.5	260.444	301.270	390.161	476.359	517.605
65.0	227.110	270.630	361.962	441.173	479.473
67.5	195.796	240.073	331.406	392.771	413.310
70.0	166.587	209.938	291.421	315.580	306.994
72.5	139.397	179.382	240.326	223.575	219.618
75.0	113.892	148.320	176.604	169.449	175.762
77.5	89.985	115.828	121.299	131.401	135.694
80.0	67.931	81.989	88.134	94.615	98.235
82.5	46.887	51.264	57.998	61.786	63.806
85.0	28.957	30.304	33.250	34.597	34.765
87.5	15.152	14.478	14.478	14.478	14.226
90.0	2.357	2.273	1.936	1.852	1.768
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DIG-S22-L32-835-WPR-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DIG-S22-L32-835-WPR-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	310.87	N.A.	12.40
0-30	659.68	N.A.	26.30
0-40	1081.49	N.A.	43.10
0-60	1946.27	N.A.	77.60
0-80	2467.84	N.A.	98.40
0-90	2508.13	N.A.	100.00
10-90	2427.58	N.A.	96.80
20-40	770.62	N.A.	30.70
20-50	1214.38	N.A.	48.40
40-70	1212.19	N.A.	48.30
60-80	521.57	N.A.	20.80
70-80	174.15	N.A.	6.90
80-90	40.29	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	2508.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.55
10-20	230.32
20-30	348.81
30-40	421.81
40-50	443.76
50-60	421.02
60-70	347.42
70-80	174.15
80-90	40.29
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DIG-S22-L32-835-WPR-DIM-UNV_.IES

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	84
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	26	37	30	25	36	30	25	36	29	25	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : DIG-S22-L32-835-WPR-DIM-UNV_.IES

UGR TABLE - CORRECTED

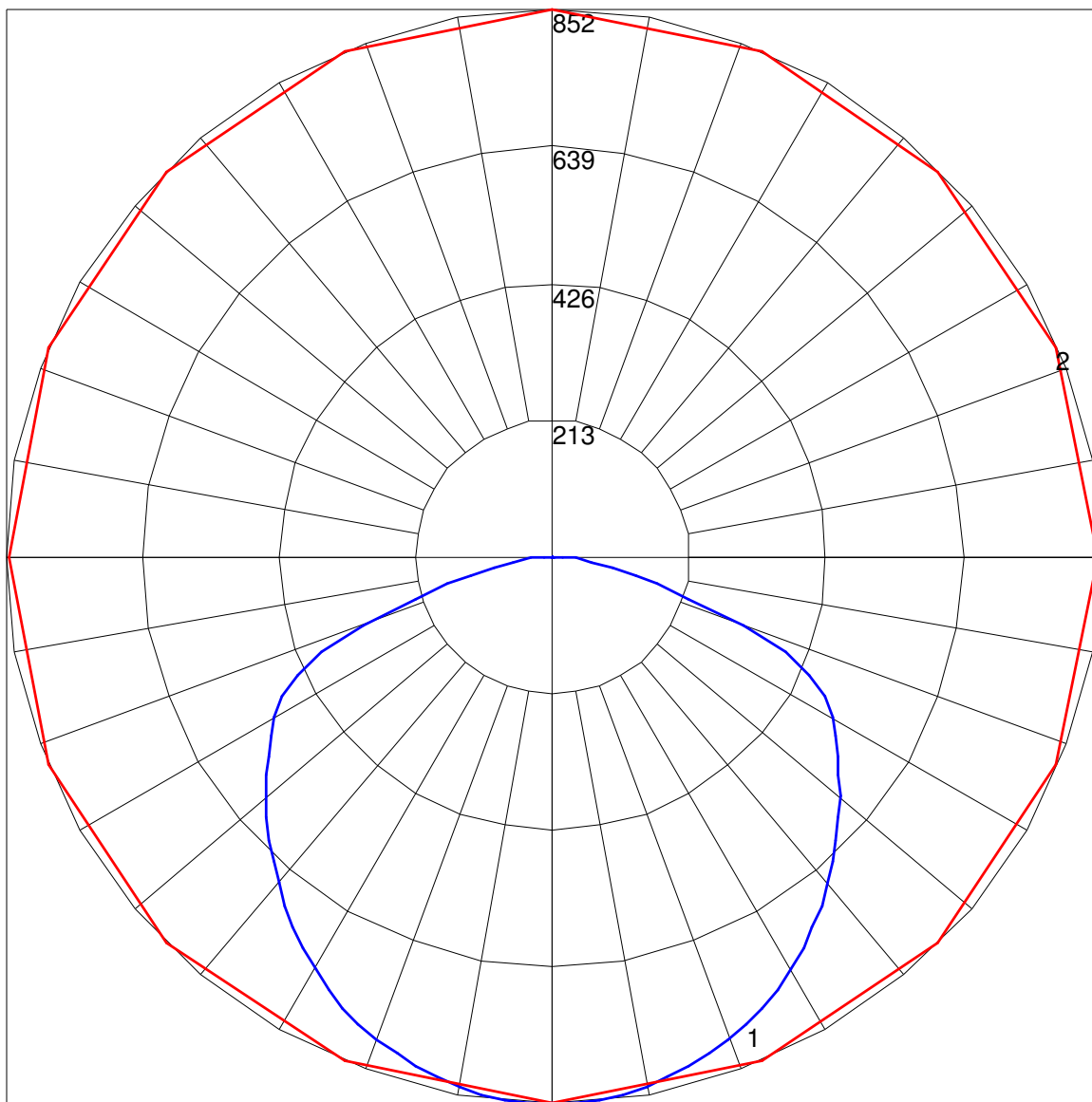
Reflectances

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	18.4	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	20.7	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	19.6	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 = 852.126 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.)