



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L24-940-EM10W-WPR-(L20)-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 101511920CHI-008
 [TESTLAB]Intertek
 [ISSUEDATE] 01-27-2023
 [MANUFAC]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-L24-940-EM10W-WPR-(L20)-DIM-UNV
 [LAMPCAT]HLM 80 CRI, 4000K 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	870
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	10
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	720	821	928
55	644	828	1024
65	544	867	1148
75	445	690	687
85	336	386	404

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	295.391	295.391	295.391	295.391	295.391
2.5	294.545	294.574	294.953	295.537	295.508
5.0	293.172	293.348	294.048	294.866	294.807
7.5	291.012	291.304	292.238	293.406	293.494
10.0	288.151	288.560	289.786	291.362	291.567
12.5	284.268	285.173	286.691	288.881	289.260
15.0	279.539	280.356	282.984	285.728	286.516
17.5	274.138	275.364	278.634	282.254	283.334
20.0	267.948	269.554	273.612	278.225	279.743
22.5	261.263	263.160	268.211	273.758	275.802
25.0	253.789	256.066	262.226	269.058	271.276
27.5	245.936	248.505	255.628	263.657	266.459
30.0	237.265	240.651	248.797	257.701	261.292
32.5	228.068	231.718	241.469	251.512	255.687
35.0	218.230	222.521	233.586	245.001	249.818
37.5	207.895	212.887	225.266	238.228	243.688
40.0	197.210	202.815	216.683	231.163	237.498
42.5	186.087	192.480	207.953	224.010	231.163
45.0	174.613	181.737	199.020	216.683	224.945
47.5	162.964	170.759	189.911	209.413	218.814
50.0	151.024	159.636	180.802	202.173	212.770
52.5	138.937	148.630	171.723	195.108	206.990
55.0	126.705	137.653	162.760	188.130	201.326
57.5	114.385	126.617	153.739	181.211	195.604
60.0	102.240	115.348	144.601	174.058	189.123
62.5	90.328	104.488	135.317	165.212	179.518
65.0	78.767	93.861	125.537	153.009	166.293
67.5	67.907	83.263	114.939	136.222	143.346
70.0	57.776	72.811	101.072	109.451	106.473
72.5	48.346	62.214	83.351	77.541	76.169
75.0	39.500	51.441	61.250	58.769	60.958
77.5	31.209	40.172	42.069	45.573	47.062
80.0	23.560	28.436	30.567	32.815	34.070
82.5	16.261	17.780	20.115	21.429	22.130
85.0	10.043	10.510	11.532	11.999	12.057
87.5	5.255	5.021	5.021	5.021	4.934
90.0	0.817	0.788	0.671	0.642	0.613
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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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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Zone	Lumens	%Lamp	%Fixt
0-20	107.82	N.A.	12.40
0-30	228.79	N.A.	26.30
0-40	375.09	N.A.	43.10
0-60	675.01	N.A.	77.60
0-80	855.90	N.A.	98.40
0-90	869.88	N.A.	100.00
10-90	841.94	N.A.	96.80
20-40	267.27	N.A.	30.70
20-50	421.18	N.A.	48.40
40-70	420.42	N.A.	48.30
60-80	180.89	N.A.	20.80
70-80	60.40	N.A.	6.90
80-90	13.97	N.A.	1.60
90-110	0.10	N.A.	0.00
90-120	0.10	N.A.	0.00
90-130	0.10	N.A.	0.00
90-150	0.10	N.A.	0.00
90-180	0.10	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	869.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	27.94
10-20	79.88
20-30	120.97
30-40	146.30
40-50	153.91
50-60	146.02
60-70	120.49
70-80	60.40
80-90	13.97
90-100	0.10
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

X=2H	Y=2H	10.2	11.9	10.6	12.2	12.5	13.0	14.6	13.3	15.0	15.3
	3H	11.8	13.3	12.2	13.7	14.0	15.1	16.6	15.5	16.9	17.3
	4H	12.4	13.8	12.8	14.2	14.5	15.5	16.9	15.9	17.3	17.7
	6H	12.8	14.1	13.2	14.5	14.9	15.8	17.1	16.2	17.5	17.9
	8H	12.9	14.2	13.3	14.5	14.9	15.9	17.2	16.3	17.5	17.9
	12H	13.0	14.2	13.4	14.6	15.0	15.9	17.1	16.4	17.5	18.0

UGR Viewed Endwise

4H	2H	11.4	12.9	11.8	13.2	13.6	13.5	14.9	13.9	15.3	15.6
	3H	13.3	14.5	13.7	14.9	15.3	15.8	17.0	16.2	17.4	17.8
	4H	13.9	15.0	14.4	15.4	15.8	16.3	17.4	16.8	17.8	18.2
	6H	14.4	15.3	14.8	15.8	16.2	16.7	17.7	17.2	18.1	18.5
	8H	14.5	15.4	15.0	15.8	16.3	16.8	17.7	17.3	18.1	18.6
	12H	14.6	15.4	15.1	15.9	16.3	16.9	17.7	17.4	18.2	18.6

8H	4H	14.4	15.3	14.9	15.7	16.2	16.5	17.4	17.0	17.8	18.3
	6H	15.0	15.7	15.5	16.2	16.6	17.0	17.7	17.5	18.2	18.7
	8H	15.1	15.8	15.6	16.3	16.8	17.1	17.8	17.6	18.3	18.8
	12H	15.3	15.8	15.8	16.3	16.9	17.2	17.8	17.7	18.3	18.9

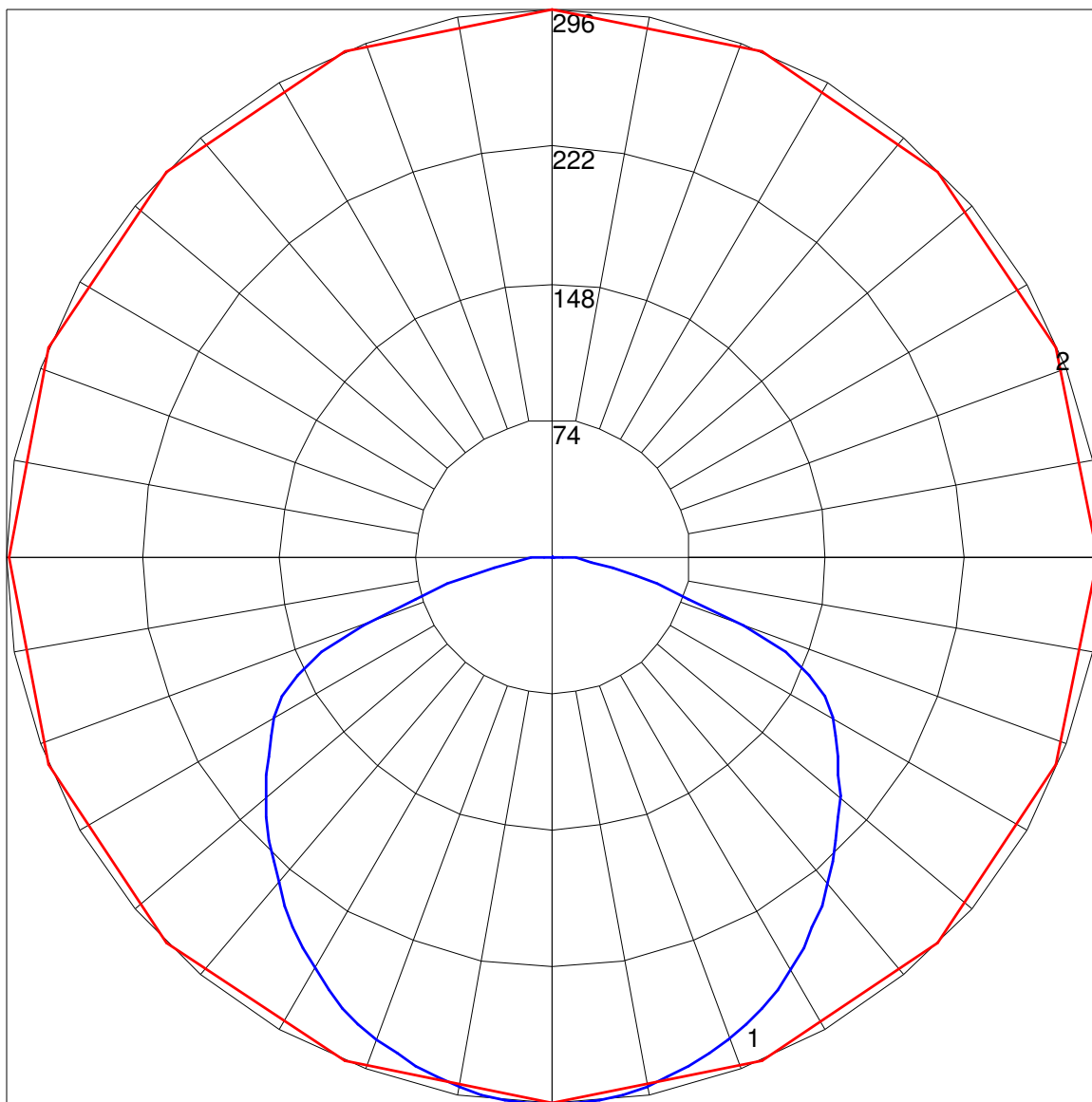
12H	4H	14.4	15.2	14.9	15.7	16.2	16.5	17.3	17.0	17.8	18.2
	6H	15.0	15.7	15.5	16.1	16.7	17.0	17.7	17.5	18.1	18.7
	8H	15.2	15.8	15.7	16.3	16.9	17.2	17.8	17.7	18.3	18.8

Maximum UGR = 18.9

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POLAR GRAPH



Maximum Candela = 295.537 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.)