

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-835-WPR-(L40)-EM10W-DIM-UNV (EMER MODE)_IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 19231.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 08-21-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 2x4' RECESSED LED TROFFER

[MORE] WITH WHITE PERFORATED DIFFUSER

[LUMCAT] DIG-S24-L50-835-WPR-(L40)-EM10W-DIM-UNV (EMER MODE)

[LAMPCAT] HLM 80 CRI, 3500K 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	1079
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.91 ft
Luminous Width (90-270)	1.88 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	489	542	574
55	425	498	543
65	383	497	595
75	314	426	383
85	263	291	319

IES INDOOR REPORT**PHOTOMETRIC FILENAME : DIG-S24-L50-835-WPR-(L40)-EM10W-DIM-UNV (EMER MODE)_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	392.113	392.113	392.113	392.113	392.113
5	387.469	387.358	387.358	387.579	387.579
10	383.820	384.041	384.594	385.589	386.031
15	368.670	369.223	371.324	372.983	373.536
20	361.593	361.925	365.574	368.670	369.666
25	325.213	327.535	332.622	336.713	338.593
30	276.226	296.131	319.242	312.054	304.313
35	276.669	282.087	291.818	300.001	302.876
40	252.452	259.197	272.245	282.087	285.404
45	235.644	244.601	260.856	272.798	276.558
50	200.480	209.879	227.240	239.182	242.831
55	166.090	176.374	194.398	207.557	211.980
60	133.801	144.416	162.330	178.364	183.893
65	110.247	121.969	143.089	163.436	171.287
70	82.492	94.656	117.656	125.397	115.887
75	55.289	66.679	75.083	68.117	67.564
80	34.279	43.347	42.905	40.251	39.808
85	15.592	17.914	17.250	17.914	18.909
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : DIG-S24-L50-835-WPR-(L40)-EM10W-DIM-UNV (EMER MODE)_IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	142.49	N.A.	13.20
0-30	296.23	N.A.	27.50
0-40	477.58	N.A.	44.30
0-60	845.26	N.A.	78.40
0-80	1058.06	N.A.	98.10
0-90	1078.76	N.A.	100.00
10-90	1041.81	N.A.	96.60
20-40	335.09	N.A.	31.10
20-50	530.69	N.A.	49.20
40-70	505.10	N.A.	46.80
60-80	212.79	N.A.	19.70
70-80	75.37	N.A.	7.00
80-90	20.70	N.A.	1.90
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	1078.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.95
10-20	105.55
20-30	153.73
30-40	181.36
40-50	195.60
50-60	172.08
60-70	137.43
70-80	75.37
80-90	20.70
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-835-WPR-(L40)-EM10W-DIM-UNV (EMER MODE)_.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	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-835-WPR-(L40)-EM10W-DIM-UNV (EMER MODE)_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

X=2H	Y=2H	8.9	10.5	9.2	10.8	11.1	10.3	11.9	10.6	12.2	12.6
	3H	10.6	12.1	11.0	12.5	12.8	12.4	13.9	12.8	14.3	14.6
	4H	11.2	12.7	11.6	13.0	13.4	12.9	14.4	13.3	14.7	15.1
	6H	11.7	13.0	12.1	13.4	13.8	13.3	14.6	13.7	15.0	15.4
	8H	11.9	13.1	12.3	13.5	13.9	13.4	14.7	13.8	15.0	15.4
	12H	12.0	13.2	12.4	13.5	14.0	13.5	14.7	13.9	15.1	15.5

UGR Viewed Endwise

4H	2H	9.8	11.2	10.2	11.6	12.0	10.9	12.3	11.3	12.7	13.0
	3H	11.8	13.0	12.2	13.4	13.8	13.3	14.5	13.7	14.9	15.3
	4H	12.5	13.6	13.0	14.0	14.5	13.9	14.9	14.3	15.4	15.8
	6H	13.2	14.1	13.6	14.5	15.0	14.3	15.3	14.8	15.7	16.2
	8H	13.3	14.2	13.8	14.7	15.1	14.5	15.4	15.0	15.8	16.3
	12H	13.5	14.3	14.0	14.7	15.2	14.6	15.4	15.1	15.9	16.3

8H	4H	13.0	13.9	13.5	14.3	14.8	14.1	15.0	14.6	15.5	15.9
	6H	13.7	14.5	14.2	14.9	15.4	14.7	15.4	15.2	15.9	16.4
	8H	14.0	14.7	14.5	15.2	15.7	14.9	15.6	15.4	16.1	16.6
	12H	14.2	14.8	14.7	15.3	15.9	15.1	15.7	15.6	16.2	16.7

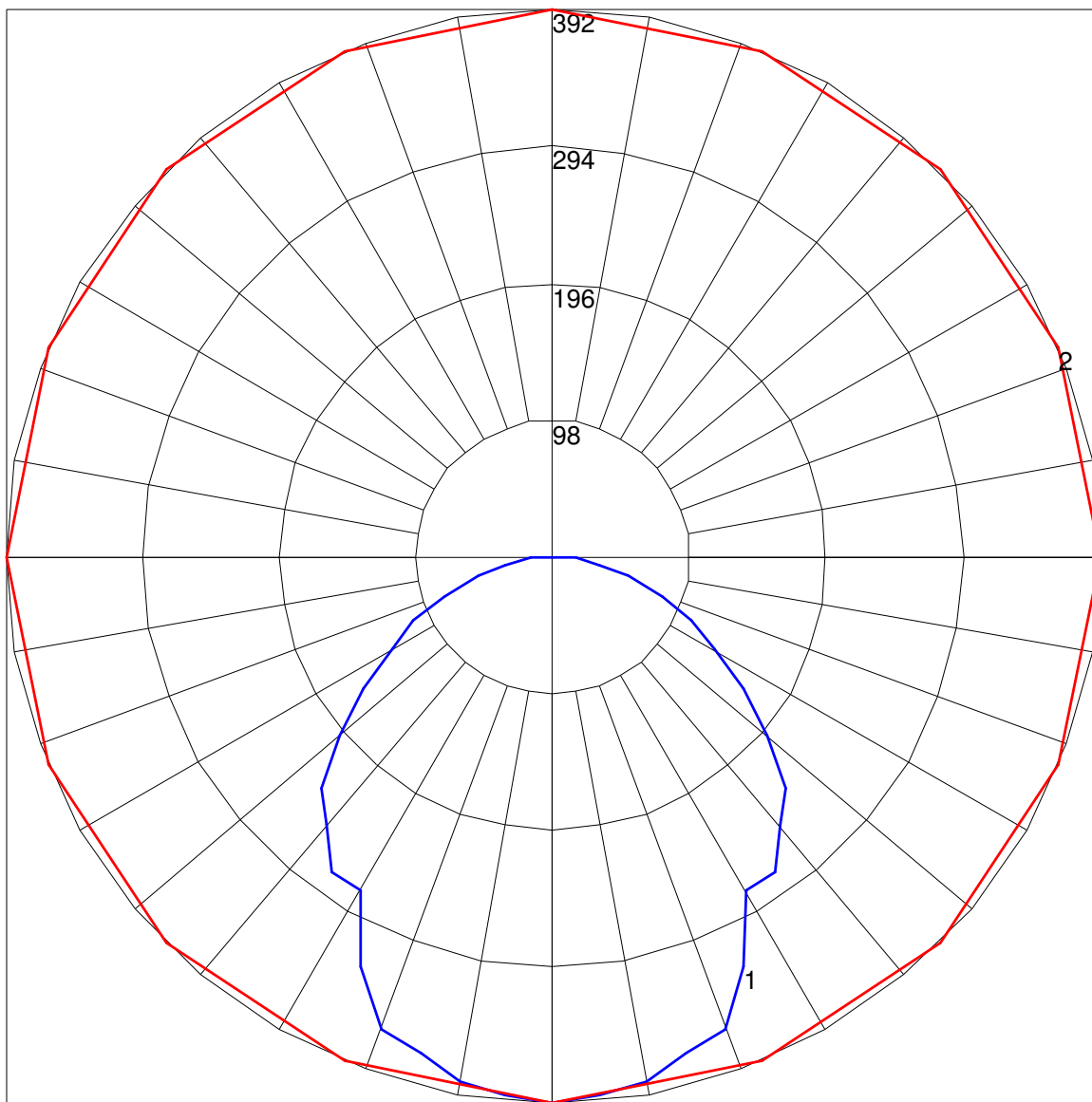
12H	4H	13.0	13.8	13.5	14.3	14.8	14.2	15.0	14.6	15.4	15.9
	6H	13.8	14.5	14.3	14.9	15.5	14.7	15.4	15.3	15.9	16.4
	8H	14.1	14.7	14.6	15.2	15.8	15.0	15.6	15.5	16.1	16.6

Maximum UGR = 16.7

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-835-WPR-(L40)-EM10W-DIM-UNV (EMER MODE)_IES

POLAR GRAPH



Maximum Candela = 392.113 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)