

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-835-WPR-(L30)- 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-(L30)- EM10W-DIM-UNV (EMER MODE)

[LAMP CAT] 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	1106
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	502	556	589
55	436	510	557
65	393	510	610
75	322	437	393
85	269	298	327

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	402.192	402.192	402.192	402.192	402.192
<b>5</b>	397.428	397.314	397.314	397.541	397.541
<b>10</b>	393.685	393.912	394.479	395.500	395.953
<b>15</b>	378.146	378.713	380.868	382.570	383.137
<b>20</b>	370.887	371.228	374.970	378.146	379.167
<b>25</b>	333.572	335.954	341.171	345.368	347.296
<b>30</b>	283.326	303.742	327.447	320.075	312.135
<b>35</b>	283.780	289.337	299.319	307.712	310.661
<b>40</b>	258.941	265.859	279.243	289.337	292.740
<b>45</b>	241.701	250.888	267.561	279.810	283.666
<b>50</b>	205.633	215.273	233.081	245.330	249.073
<b>55</b>	170.359	180.907	199.394	212.892	217.428
<b>60</b>	137.240	148.128	166.502	182.948	188.619
<b>65</b>	113.081	125.104	146.767	167.637	175.689
<b>70</b>	84.612	97.089	120.680	128.620	118.865
<b>75</b>	56.711	68.393	77.013	69.867	69.300
<b>80</b>	35.161	44.461	44.007	41.285	40.832
<b>85</b>	15.992	18.374	17.694	18.374	19.395
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : DIG-S24-L50-835-WPR-(L30)- EM10W-DIM-UNV (EMER MODE)\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	146.16	N.A.	13.20
0-30	303.84	N.A.	27.50
0-40	489.86	N.A.	44.30
0-60	866.99	N.A.	78.40
0-80	1085.25	N.A.	98.10
0-90	1106.48	N.A.	100.00
10-90	1068.59	N.A.	96.60
20-40	343.70	N.A.	31.10
20-50	544.33	N.A.	49.20
40-70	518.09	N.A.	46.80
60-80	218.26	N.A.	19.70
70-80	77.30	N.A.	7.00
80-90	21.23	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	1106.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	37.89
10-20	108.26
20-30	157.69
30-40	186.02
40-50	200.63
50-60	176.50
60-70	140.96
70-80	77.30
80-90	21.23
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	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	56	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	36	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	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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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	9.0	10.6	9.3	10.9	11.3	10.4	12.0	10.8	12.4	12.7
	3H	10.7	12.2	11.1	12.6	12.9	12.5	14.0	12.9	14.4	14.7
	4H	11.3	12.8	11.7	13.1	13.5	13.1	14.5	13.5	14.8	15.2
	6H	11.8	13.1	12.2	13.5	13.9	13.4	14.7	13.8	15.1	15.5
	8H	12.0	13.2	12.4	13.6	14.0	13.5	14.8	13.9	15.2	15.6
	12H	12.1	13.3	12.5	13.6	14.1	13.6	14.8	14.0	15.2	15.6

### UGR Viewed Endwise

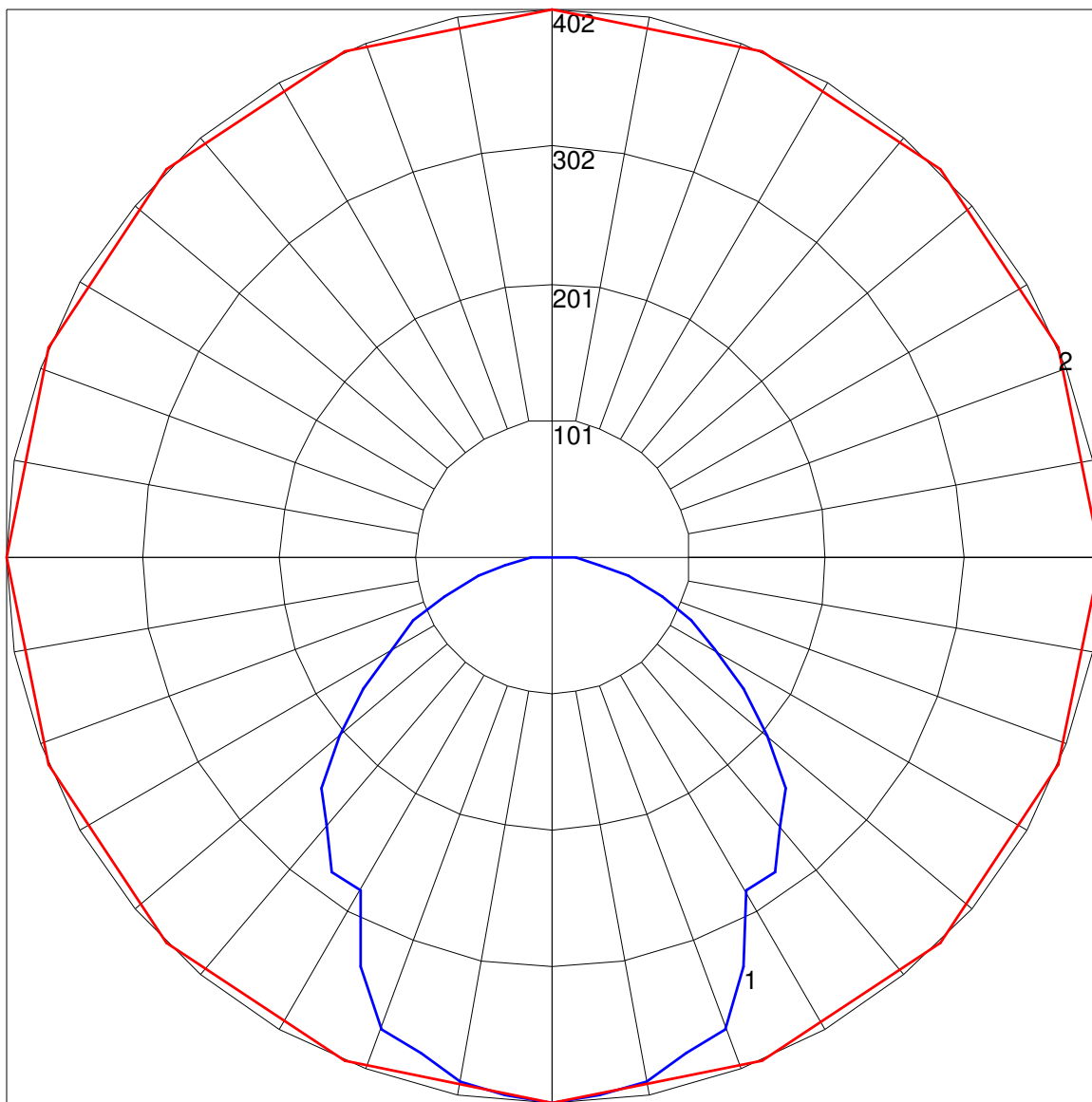
4H	2H	9.9	11.3	10.3	11.7	12.1	11.0	12.4	11.4	12.8	13.1
	3H	11.9	13.1	12.3	13.5	13.9	13.4	14.6	13.8	15.0	15.4
	4H	12.7	13.7	13.1	14.1	14.6	14.0	15.0	14.4	15.5	15.9
	6H	13.3	14.2	13.7	14.6	15.1	14.4	15.4	14.9	15.8	16.3
	8H	13.4	14.3	13.9	14.8	15.2	14.6	15.5	15.1	15.9	16.4
	12H	13.6	14.4	14.1	14.9	15.3	14.7	15.5	15.2	16.0	16.5
8H	4H	13.1	14.0	13.6	14.4	14.9	14.2	15.1	14.7	15.6	16.0
	6H	13.8	14.6	14.3	15.0	15.5	14.8	15.5	15.3	16.0	16.5
	8H	14.1	14.8	14.6	15.3	15.8	15.0	15.7	15.6	16.2	16.7
	12H	14.3	14.9	14.8	15.4	16.0	15.2	15.8	15.7	16.3	16.8
12H	4H	13.1	13.9	13.6	14.4	14.9	14.3	15.1	14.7	15.5	16.0
	6H	13.9	14.6	14.4	15.0	15.6	14.9	15.5	15.4	16.0	16.5
	8H	14.2	14.8	14.8	15.3	15.9	15.1	15.7	15.6	16.2	16.8

Maximum UGR = 16.8

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## POLAR GRAPH



Maximum Candela = 402.192 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.)