



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-835-AD-(L45)-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] 06-12-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4'RECESSED LED TROFFER
 [MORE] WITH FROST ACRYLIC DIFFUSER
 [LUMCAT] DIG-S24-L50-835-AD-(L45) EM10W-DIM-UNV
 [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	1310
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	594	658	697
55	516	604	659
65	465	604	723
75	381	517	465
85	319	353	387

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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	476.144	476.144	476.144	476.144	476.144
5	470.504	470.370	470.370	470.638	470.638
10	466.073	466.342	467.013	468.221	468.759
15	447.677	448.349	450.900	452.914	453.585
20	439.084	439.486	443.917	447.677	448.886
25	394.907	397.726	403.903	408.871	411.154
30	335.422	359.592	387.656	378.928	369.528
35	335.959	342.539	354.355	364.292	367.783
40	306.553	314.744	330.588	342.539	346.567
45	286.143	297.019	316.758	331.260	335.825
50	243.443	254.856	275.938	290.440	294.871
55	201.683	214.171	236.058	252.037	257.408
60	162.474	175.365	197.118	216.588	223.301
65	133.873	148.107	173.754	198.460	207.994
70	100.170	114.941	142.870	152.269	140.722
75	67.138	80.969	91.174	82.714	82.043
80	41.626	52.636	52.099	48.877	48.339
85	18.933	21.753	20.947	21.753	22.961
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	173.03	N.A.	13.20
0-30	359.71	N.A.	27.50
0-40	579.93	N.A.	44.30
0-60	1026.41	N.A.	78.40
0-80	1284.8	N.A.	98.10
0-90	1309.94	N.A.	100.00
10-90	1265.07	N.A.	96.60
20-40	406.90	N.A.	31.10
20-50	644.42	N.A.	49.20
40-70	613.35	N.A.	46.80
60-80	258.39	N.A.	19.70
70-80	91.52	N.A.	7.00
80-90	25.14	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	1309.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.86
10-20	128.17
20-30	186.68
30-40	220.22
40-50	237.52
50-60	208.96
60-70	166.88
70-80	91.52
80-90	25.14
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	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	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	9.5	11.1	9.8	11.4	11.7	10.9	12.5	11.2	12.8	13.2
	3H	11.2	12.7	11.6	13.1	13.4	13.0	14.5	13.4	14.9	15.2
	4H	11.8	13.3	12.2	13.6	14.0	13.6	15.0	13.9	15.3	15.7
	6H	12.3	13.6	12.7	14.0	14.4	13.9	15.2	14.3	15.6	16.0
	8H	12.5	13.7	12.9	14.1	14.5	14.0	15.3	14.4	15.7	16.0
	12H	12.6	13.8	13.0	14.1	14.6	14.1	15.3	14.5	15.7	16.1

UGR Viewed Endwise

4H	2H	10.4	11.8	10.8	12.2	12.6	11.5	12.9	11.9	13.3	13.6
	3H	12.4	13.6	12.8	14.0	14.4	13.9	15.1	14.3	15.5	15.9
	4H	13.1	14.2	13.6	14.6	15.1	14.5	15.5	14.9	16.0	16.4
	6H	13.8	14.7	14.2	15.1	15.6	14.9	15.9	15.4	16.3	16.8
	8H	13.9	14.8	14.4	15.3	15.7	15.1	16.0	15.6	16.4	16.9
	12H	14.1	14.9	14.6	15.3	15.8	15.2	16.0	15.7	16.5	16.9

8H	4H	13.6	14.5	14.1	14.9	15.4	14.7	15.6	15.2	16.1	16.5
	6H	14.3	15.1	14.8	15.5	16.0	15.3	16.0	15.8	16.5	17.0
	8H	14.6	15.3	15.1	15.8	16.3	15.5	16.2	16.0	16.7	17.2
	12H	14.8	15.4	15.3	15.9	16.5	15.7	16.3	16.2	16.8	17.3

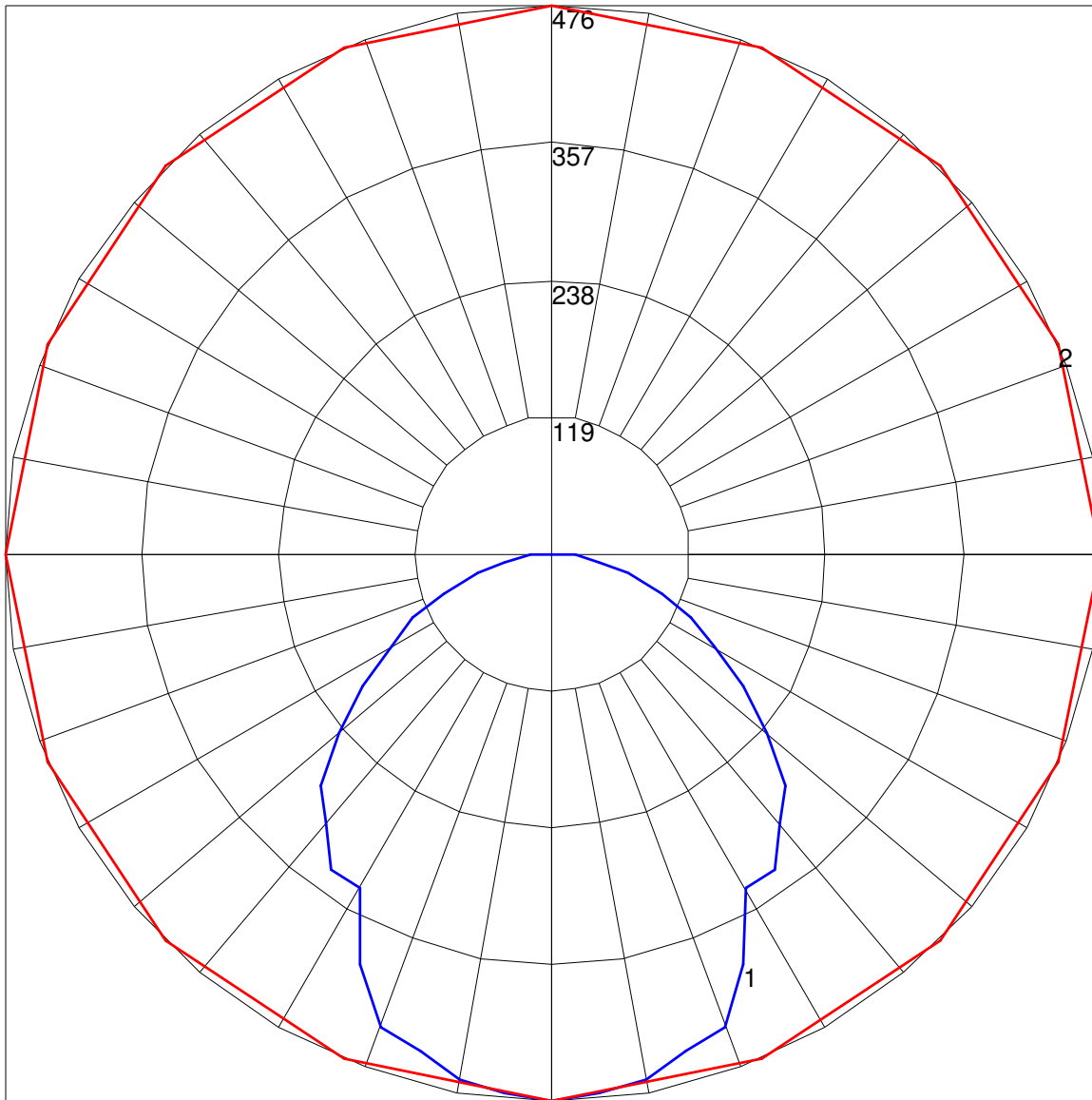
12H	4H	13.6	14.4	14.1	14.9	15.4	14.8	15.6	15.2	16.0	16.5
	6H	14.4	15.1	14.9	15.5	16.1	15.4	16.0	15.9	16.5	17.0
	8H	14.7	15.3	15.2	15.8	16.4	15.6	16.2	16.1	16.7	17.2

Maximum UGR = 17.3

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POLAR GRAPH



Maximum Candela = 476.144 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.)