



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L64-835-AD-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] 11-05-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4'RECESSED LED TROFFER
 [MORE] WITH FROST ACRYLIC DIFFUSER
 [LUMCAT] DIG-S24-L64-835-AD-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	1300
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	590	653	692
55	512	600	654
65	462	599	717
75	378	513	462
85	317	350	384

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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	472.509	472.509	472.509	472.509	472.509
5	466.913	466.779	466.779	467.046	467.046
10	462.515	462.782	463.448	464.647	465.180
15	444.260	444.926	447.458	449.457	450.123
20	435.732	436.131	440.529	444.260	445.459
25	391.892	394.690	400.820	405.750	408.015
30	332.862	356.847	384.696	376.035	366.708
35	333.395	339.924	351.650	361.511	364.975
40	304.213	312.341	328.065	339.924	343.922
45	283.959	294.752	314.340	328.731	333.261
50	241.585	252.911	273.831	288.223	292.620
55	200.143	212.536	234.256	250.113	255.443
60	161.234	174.026	195.613	214.934	221.597
65	132.852	146.976	172.427	196.945	206.406
70	99.405	114.063	141.779	151.107	139.647
75	66.626	80.351	90.478	82.083	81.417
80	41.308	52.235	51.702	48.503	47.970
85	18.788	21.587	20.787	21.587	22.786
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	171.71	N.A.	13.20
0-30	356.96	N.A.	27.50
0-40	575.50	N.A.	44.30
0-60	1018.57	N.A.	78.40
0-80	1274.99	N.A.	98.10
0-90	1299.94	N.A.	100.00
10-90	1255.42	N.A.	96.60
20-40	403.79	N.A.	31.10
20-50	639.50	N.A.	49.20
40-70	608.67	N.A.	46.80
60-80	256.42	N.A.	19.70
70-80	90.82	N.A.	7.00
80-90	24.95	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	1299.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.52
10-20	127.19
20-30	185.25
30-40	218.54
40-50	235.70
50-60	207.36
60-70	165.60
70-80	90.82
80-90	24.95
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

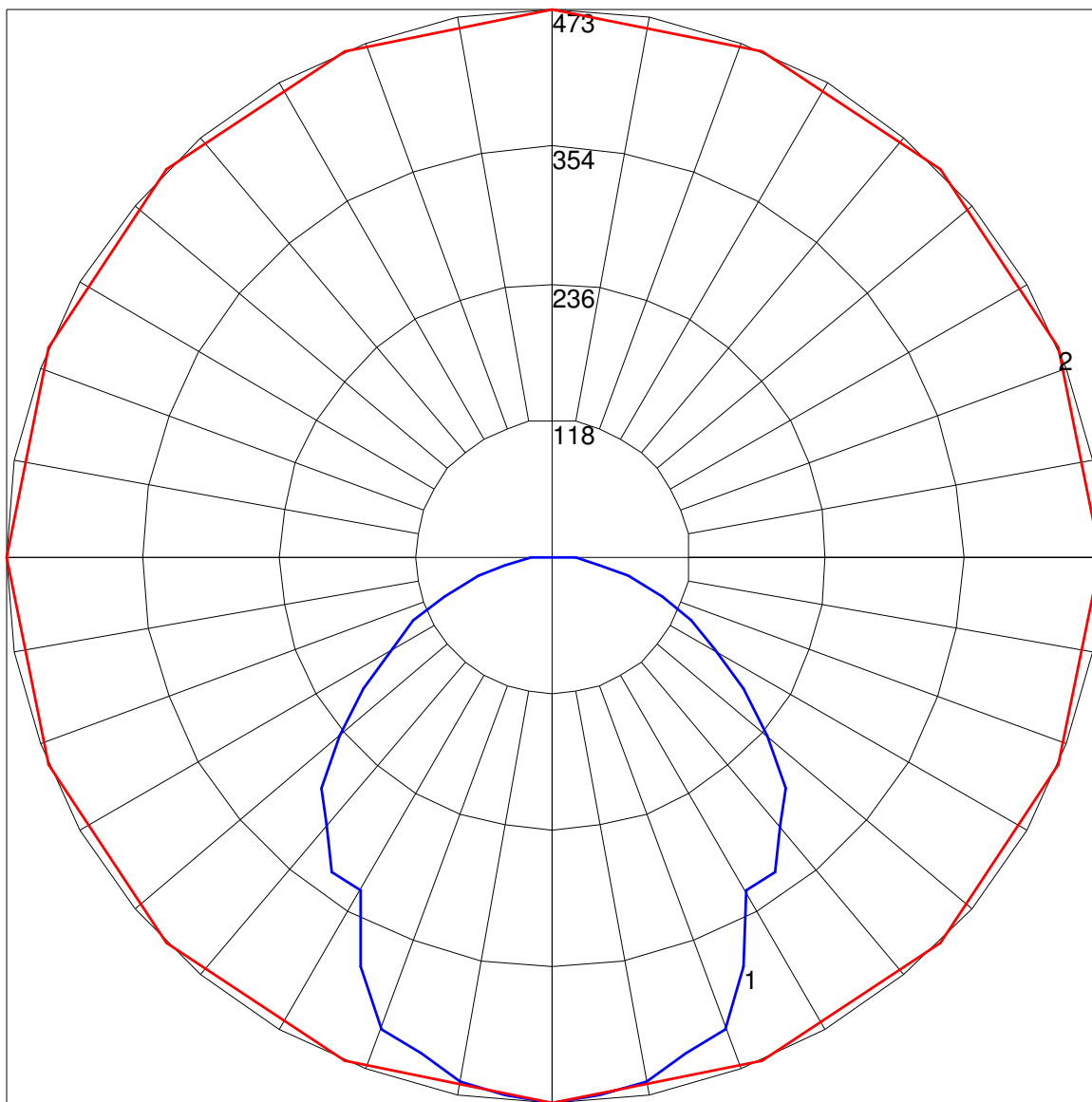
12H	4H	13.6	14.4	14.1	14.9	15.4	14.8	15.6	15.2	16.0	16.5
	6H	14.4	15.1	14.9	15.5	16.1	15.4	16.0	15.9	16.5	17.0
	8H	14.7	15.3	15.2	15.8	16.4	15.6	16.2	16.1	16.7	17.2

Maximum UGR = 17.3

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POLAR GRAPH



Maximum Candela = 472.509 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.)