



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L64-835-AD-(L60)-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-L64-835-AD-(L60)-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	1334
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
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	605	670	710
55	526	615	671
65	474	615	736
75	388	527	474
85	325	359	394

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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	484.867	484.867	484.867	484.867	484.867
5	479.124	478.988	478.988	479.261	479.261
10	474.612	474.885	475.569	476.800	477.347
15	455.879	456.563	459.161	461.212	461.896
20	447.128	447.538	452.051	455.879	457.110
25	402.142	405.013	411.303	416.362	418.687
30	341.568	366.180	394.758	385.870	376.299
35	342.114	348.815	360.847	370.966	374.521
40	312.169	320.510	336.645	348.815	352.917
45	291.385	302.461	322.561	337.329	341.978
50	247.903	259.526	280.993	295.761	300.273
55	205.378	218.095	240.383	256.654	262.124
60	165.451	178.578	200.729	220.556	227.393
65	136.326	150.820	176.937	202.096	211.805
70	102.005	117.046	145.488	155.059	143.300
75	68.368	82.452	92.844	84.230	83.546
80	42.388	53.601	53.054	49.772	49.225
85	19.280	22.151	21.331	22.151	23.382
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	176.20	N.A.	13.20
0-30	366.30	N.A.	27.50
0-40	590.56	N.A.	44.30
0-60	1045.21	N.A.	78.40
0-80	1308.34	N.A.	98.10
0-90	1333.94	N.A.	100.00
10-90	1288.25	N.A.	96.60
20-40	414.36	N.A.	31.10
20-50	656.22	N.A.	49.20
40-70	624.59	N.A.	46.80
60-80	263.13	N.A.	19.70
70-80	93.19	N.A.	7.00
80-90	25.60	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	1333.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.68
10-20	130.52
20-30	190.10
30-40	224.26
40-50	241.87
50-60	212.79
60-70	169.93
70-80	93.19
80-90	25.60
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	9.6	11.2	9.9	11.5	11.8	11.0	12.6	11.3	12.9	13.3
	3H	11.3	12.8	11.7	13.2	13.5	13.1	14.6	13.5	15.0	15.3
	4H	11.9	13.4	12.3	13.7	14.1	13.7	15.1	14.0	15.4	15.8
	6H	12.4	13.7	12.8	14.1	14.5	14.0	15.3	14.4	15.7	16.1
	8H	12.6	13.8	13.0	14.2	14.6	14.1	15.4	14.5	15.8	16.1
	12H	12.7	13.9	13.1	14.2	14.7	14.2	15.4	14.6	15.8	16.2

UGR Viewed Endwise

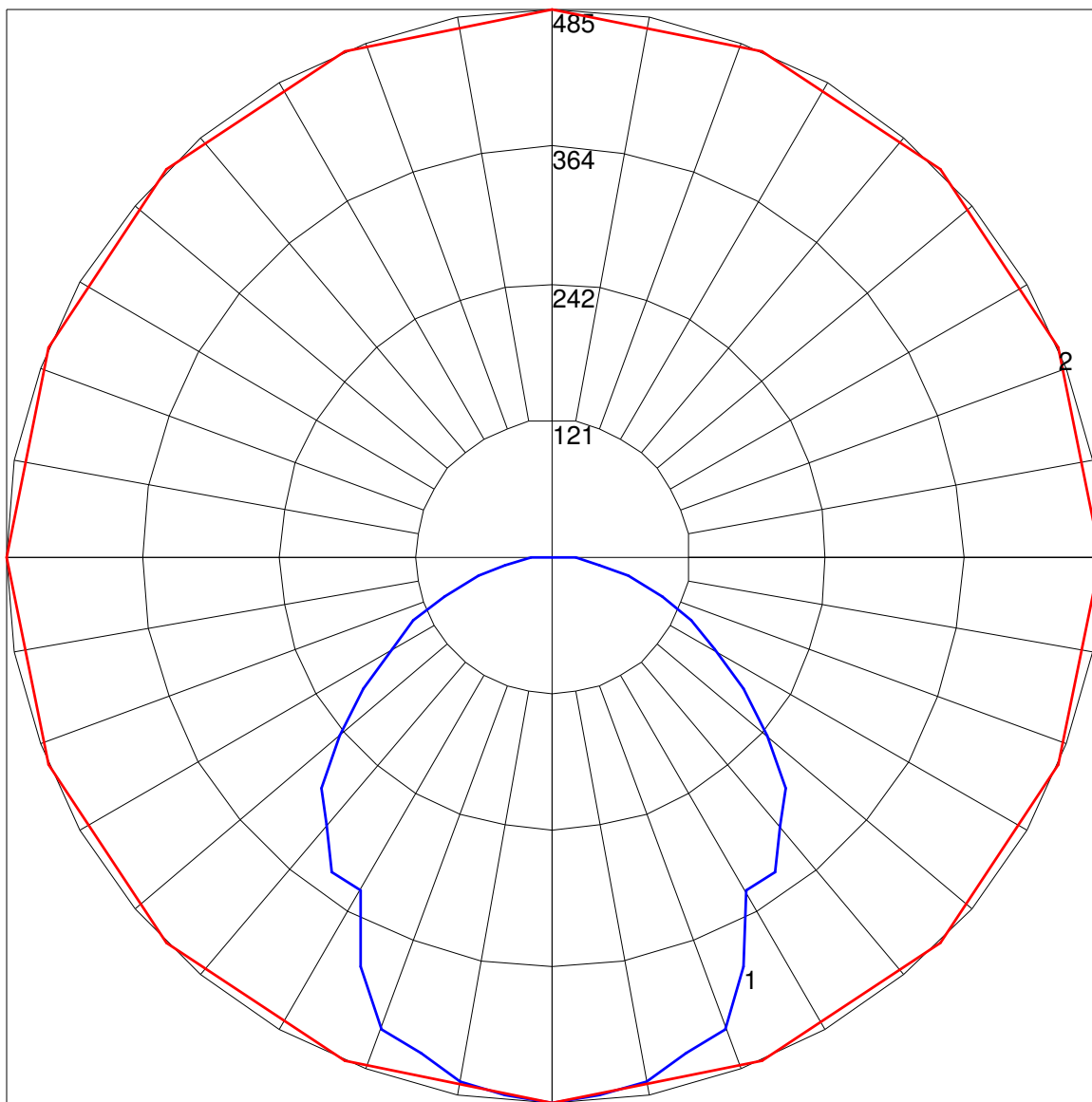
4H	2H	10.5	11.9	10.9	12.3	12.7	11.6	13.0	12.0	13.4	13.7
	3H	12.5	13.7	12.9	14.1	14.5	14.0	15.2	14.4	15.6	16.0
	4H	13.2	14.3	13.7	14.7	15.2	14.6	15.6	15.0	16.1	16.5
	6H	13.9	14.8	14.3	15.2	15.7	15.0	16.0	15.5	16.4	16.9
	8H	14.0	14.9	14.5	15.4	15.8	15.2	16.1	15.7	16.5	17.0
	12H	14.2	15.0	14.7	15.4	15.9	15.3	16.1	15.8	16.6	17.0
8H	4H	13.7	14.6	14.2	15.0	15.5	14.8	15.7	15.3	16.2	16.6
	6H	14.4	15.2	14.9	15.6	16.1	15.4	16.1	15.9	16.6	17.1
	8H	14.7	15.4	15.2	15.9	16.4	15.6	16.3	16.1	16.8	17.3
	12H	14.9	15.5	15.4	16.0	16.6	15.8	16.4	16.3	16.9	17.4
12H	4H	13.7	14.5	14.2	15.0	15.5	14.9	15.7	15.3	16.1	16.6
	6H	14.5	15.2	15.0	15.6	16.2	15.5	16.1	16.0	16.6	17.1
	8H	14.8	15.4	15.3	15.9	16.5	15.7	16.3	16.2	16.8	17.3

Maximum UGR = 17.4

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POLAR GRAPH



Maximum Candela = 484.867 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.)