



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HETLG-S24-L57-835-FA-(L50)-EM10W-DIM-UNV_EMITTER MODE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 18752.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 03-07-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4' LED TROFFER
 [MORE] WITH FROSTED ACRYLIC LENS
 [MORE] CLEAR ACRYLIC LENS IN DOOR
 [LUMCAT] HETLG-S24-L57-835-FA-(L50)-EM10W-DIM-UNV
 [LAMP CAT] HLM 80 CRI 3500K CCT
 [SEARCH_SOURCE TYPE] LED
 [SEARCH_APPLICATION] INDOOR, CLASSROOM, COMMERCIAL, EDUCATIONAL, OFFICE, DIRECT
 [SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1230
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	676	716	741
55	561	620	605
65	430	471	363
75	257	231	167
85	91	73	73

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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	529.396	529.396	529.396	529.396	529.396
5	523.433	523.168	523.168	523.168	522.505
10	519.192	519.192	519.457	519.457	519.457
15	494.544	494.942	495.737	496.267	496.930
20	482.088	482.883	484.076	486.064	486.594
25	444.056	445.249	448.694	452.140	452.935
30	415.566	417.819	422.987	426.962	428.155
35	371.703	373.956	381.377	386.810	388.798
40	339.105	343.080	352.621	359.115	361.367
45	296.965	303.193	314.325	322.673	325.191
50	246.212	253.633	265.559	273.510	273.510
55	199.699	207.385	220.769	221.299	215.601
60	152.922	160.078	171.209	157.427	148.284
65	112.902	120.323	123.504	103.891	95.278
70	75.268	80.966	75.931	59.367	53.933
75	41.345	44.790	37.104	29.418	26.768
80	18.817	19.745	15.107	13.119	11.926
85	4.903	4.505	3.975	3.975	3.975
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	190.85	N.A.	15.50
0-30	398.94	N.A.	32.40
0-40	639.29	N.A.	52.00
0-60	1068.91	N.A.	86.90
0-80	1223.42	N.A.	99.50
0-90	1230.03	N.A.	100.00
10-90	1180.15	N.A.	95.90
20-40	448.44	N.A.	36.50
20-50	687.78	N.A.	55.90
40-70	542.31	N.A.	44.10
60-80	154.51	N.A.	12.60
70-80	41.81	N.A.	3.40
80-90	6.61	N.A.	0.50
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	1230.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.88
10-20	140.98
20-30	208.09
30-40	240.35
40-50	239.34
50-60	190.28
60-70	112.69
70-80	41.81
80-90	6.61
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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	90	89	87
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

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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	9.8	11.3	10.2	11.6	12.0	10.0	11.5	10.3	11.8	12.1
	3H	11.0	12.4	11.4	12.7	13.1	10.7	12.0	11.1	12.4	12.7
	4H	11.3	12.6	11.7	12.9	13.3	10.8	12.1	11.2	12.4	12.8
	6H	11.4	12.6	11.8	13.0	13.4	10.8	12.0	11.2	12.4	12.8
	8H	11.4	12.6	11.9	12.9	13.3	10.8	11.9	11.2	12.3	12.7
	12H	11.4	12.5	11.9	12.9	13.3	10.8	11.9	11.2	12.2	12.7

UGR Viewed Endwise

4H	2H	10.3	11.6	10.7	11.9	12.3	10.5	11.8	10.9	12.1	12.5
	3H	11.7	12.7	12.1	13.1	13.5	11.3	12.4	11.7	12.8	13.2
	4H	12.0	13.0	12.5	13.4	13.8	11.4	12.4	11.9	12.8	13.3
	6H	12.2	13.1	12.7	13.5	14.0	11.5	12.3	12.0	12.8	13.2
	8H	12.3	13.0	12.7	13.5	13.9	11.5	12.3	12.0	12.7	13.2
	12H	12.3	12.9	12.7	13.4	13.9	11.5	12.2	12.0	12.7	13.1

8H	4H	12.1	12.9	12.6	13.3	13.8	11.6	12.3	12.0	12.8	13.2
	6H	12.3	13.0	12.8	13.4	13.9	11.6	12.3	12.1	12.8	13.2
	8H	12.4	12.9	12.9	13.4	13.9	11.6	12.2	12.1	12.7	13.2
	12H	12.4	12.9	12.9	13.4	13.9	11.7	12.1	12.2	12.6	13.2

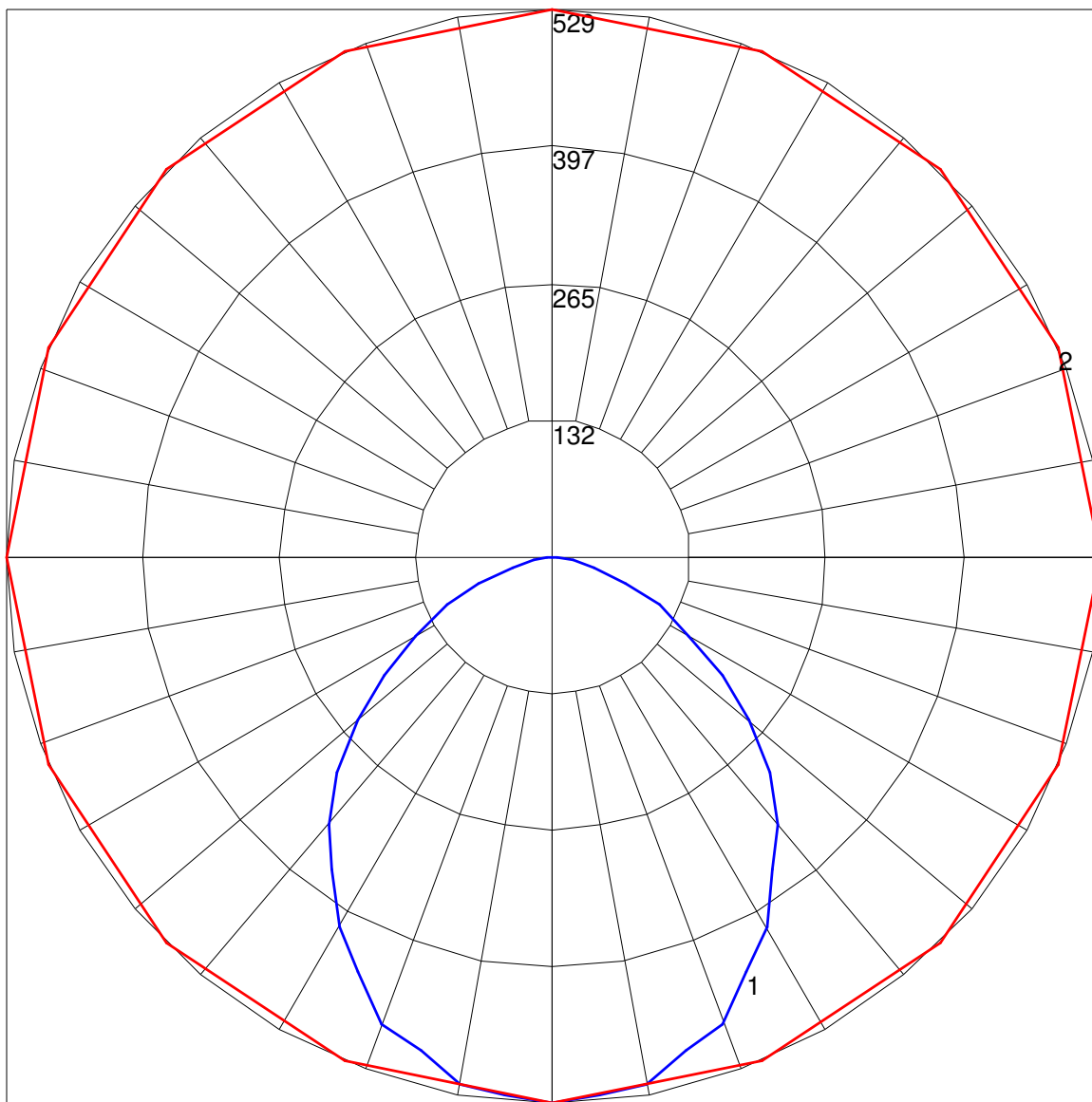
12H	4H	12.1	12.8	12.6	13.2	13.7	11.5	12.2	12.0	12.7	13.2
	6H	12.3	12.9	12.8	13.3	13.9	11.6	12.2	12.1	12.7	13.2
	8H	12.4	12.9	12.9	13.4	13.9	11.7	12.2	12.2	12.6	13.2

Maximum UGR = 14.0

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POLAR GRAPH



Maximum Candela = 529.396 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.)