



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-24-L40-840-AF-EM14W-DIM-UNV_EMER MODE ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20802.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 01-09-2024
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2x4' RECESSED LED LUMINAIRE
 [LUMINAIRE] WHITE REFLECTOR w/FROSTED CENTER LENS
 [LUMINAIRE] 0-10V DIMMING DRIVER
 [LUMCAT] LT-24-L40-840-AF-EM14W-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAYS
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Classroom, Office, Direct
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1792
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	14
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.93 ft
Luminous Width (90-270)	1.91 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	740	823	885
55	674	798	893
65	575	793	934
75	424	833	1045
85	162	669	615

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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	622.500	622.500	622.500	622.500	622.500
5	628.468	621.008	617.128	615.636	615.636
10	616.830	609.071	606.982	607.281	606.385
15	598.328	592.957	592.061	594.150	595.344
20	574.156	569.382	571.470	577.140	578.334
25	542.524	538.346	545.806	553.864	555.654
30	506.117	505.222	515.368	526.111	530.289
35	463.443	467.024	481.945	495.672	500.745
40	418.382	424.947	447.925	463.742	469.710
45	364.368	375.708	404.953	431.214	435.690
50	319.307	333.333	361.981	387.645	395.105
55	268.875	282.900	318.710	346.165	356.311
60	219.337	234.855	273.052	306.177	315.726
65	169.203	190.689	233.363	265.592	274.843
70	122.351	146.523	190.689	225.007	232.468
75	76.395	105.938	150.104	180.841	188.302
80	36.705	68.636	108.923	123.247	119.069
85	9.848	34.020	40.585	36.109	37.302
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	226.33	N.A.	12.60
0-30	478.35	N.A.	26.70
0-40	779.94	N.A.	43.50
0-60	1373.29	N.A.	76.60
0-80	1747.9	N.A.	97.50
0-90	1791.94	N.A.	100.00
10-90	1733.18	N.A.	96.70
20-40	553.61	N.A.	30.90
20-50	864.83	N.A.	48.30
40-70	819.02	N.A.	45.70
60-80	374.61	N.A.	20.90
70-80	148.94	N.A.	8.30
80-90	44.04	N.A.	2.50
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	1791.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.76
10-20	167.57
20-30	252.03
30-40	301.59
40-50	311.22
50-60	282.13
60-70	225.67
70-80	148.94
80-90	44.04
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	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	10.3	12.0	10.7	12.3	12.6	12.0	13.7	12.4	14.0	14.3
	3H	11.9	13.4	12.3	13.7	14.1	14.4	15.9	14.8	16.2	16.6
	4H	12.4	13.8	12.8	14.2	14.6	15.4	16.9	15.8	17.2	17.6
	6H	12.7	14.1	13.1	14.4	14.8	16.3	17.6	16.7	18.0	18.3
	8H	12.8	14.1	13.2	14.5	14.9	16.5	17.8	16.9	18.2	18.6
	12H	12.8	14.0	13.3	14.4	14.9	16.6	17.9	17.1	18.2	18.7

UGR Viewed Endwise

4H	2H	11.3	12.7	11.7	13.0	13.4	12.6	14.0	13.0	14.4	14.7
	3H	13.1	14.3	13.5	14.7	15.1	15.2	16.4	15.6	16.8	17.2
	4H	13.8	14.9	14.2	15.3	15.7	16.5	17.6	16.9	18.0	18.4
	6H	14.3	15.2	14.7	15.7	16.1	17.5	18.5	18.0	18.9	19.3
	8H	14.4	15.3	14.9	15.7	16.2	17.8	18.7	18.3	19.1	19.6
	12H	14.5	15.3	14.9	15.7	16.2	18.0	18.8	18.4	19.2	19.7

8H	4H	14.6	15.5	15.0	15.9	16.4	16.8	17.7	17.3	18.1	18.6
	6H	15.2	16.0	15.7	16.5	16.9	18.0	18.7	18.5	19.2	19.7
	8H	15.5	16.1	16.0	16.6	17.1	18.4	19.1	18.9	19.6	20.1
	12H	15.6	16.2	16.1	16.7	17.2	18.6	19.2	19.1	19.7	20.3

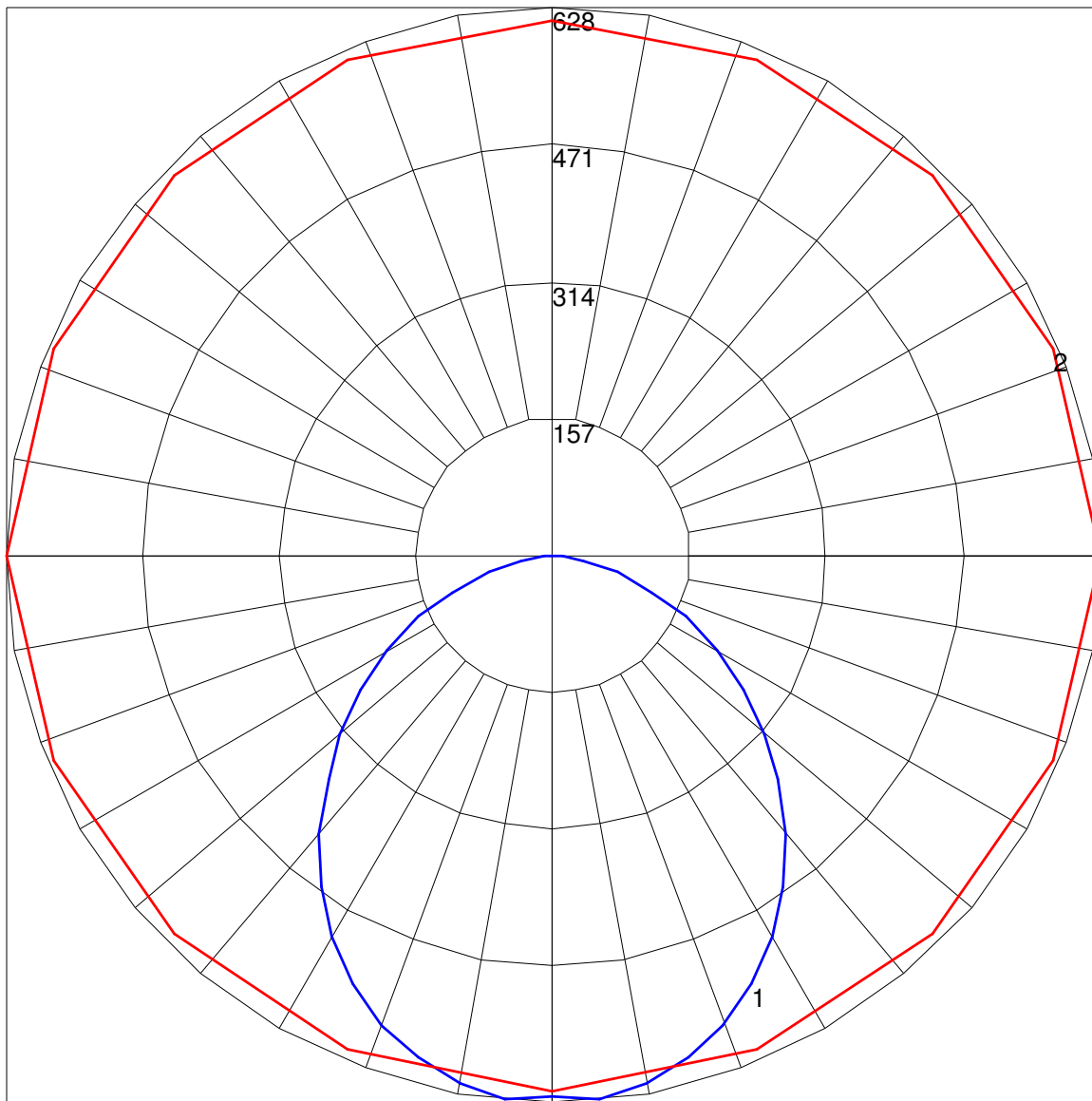
12H	4H	14.7	15.5	15.2	16.0	16.5	16.8	17.6	17.3	18.1	18.6
	6H	15.5	16.2	16.0	16.6	17.2	18.1	18.7	18.6	19.2	19.7
	8H	15.8	16.4	16.3	16.9	17.4	18.5	19.1	19.0	19.6	20.2

Maximum UGR = 20.3

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POLAR GRAPH



Maximum Candela = 628.468 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)