



IES INDOOR REPORT

PHOTOMETRIC FILENAME : RNDX-2-L25-840-FXA-EM10WRM-DIM-UNV_(EMER MODE ONLY).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 18645.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 04-26-2024
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2' RND SURFACE LUMINAIRE w/WHITE REFL
 [MORE] WITH FROST ACRYLIC CONVEX LENS
 [LUMCAT] RNDx-2-L25-840-FXA-EM10WRM-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] INDOOR,ARCHITECTURAL,EDUCATION
 [_SEARCH_MOUNTING] SURFACE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1070
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	2.17 ft (Diameter)
Luminous Width (90-270)	2.17 ft (Diameter)
Luminous Height	0.48 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	807	788	793
55	692	683	688
65	564	562	564
75	398	400	386
85	193	182	189

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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	371.286	371.286	371.286	371.286	371.286
5	373.458	371.286	370.852	369.115	369.115
10	368.247	367.378	366.510	364.773	364.773
15	360.864	360.430	359.562	358.693	358.259
20	348.705	348.271	347.837	346.100	347.403
25	333.941	335.243	332.638	333.072	333.072
30	317.873	318.742	315.702	317.439	316.571
35	296.595	296.595	295.726	295.292	293.989
40	274.014	272.277	271.408	270.974	270.540
45	250.998	246.656	244.919	245.353	246.656
50	223.640	222.338	217.127	219.298	219.732
55	191.071	194.980	188.466	190.637	189.769
60	158.937	163.279	158.502	160.239	160.674
65	131.144	130.710	130.710	131.144	131.144
70	102.918	100.312	102.049	99.878	100.747
75	72.520	71.218	72.955	69.046	70.349
80	46.465	46.465	45.162	44.294	44.728
85	24.318	24.752	23.015	23.884	23.884
90	9.988	9.554	10.856	10.422	11.291

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Zone	Lumens	%Lamp	%Fixt
0-20	136.57	N.A.	12.80
0-30	290.38	N.A.	27.10
0-40	475.33	N.A.	44.40
0-60	836.23	N.A.	78.10
0-80	1041.98	N.A.	97.40
0-90	1070.21	N.A.	100.00
10-90	1034.98	N.A.	96.70
20-40	338.76	N.A.	31.70
20-50	528.98	N.A.	49.40
40-70	490.47	N.A.	45.80
60-80	205.75	N.A.	19.20
70-80	76.19	N.A.	7.10
80-90	28.23	N.A.	2.60
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	1070.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	35.23
10-20	101.33
20-30	153.81
30-40	184.95
40-50	190.22
50-60	170.68
60-70	129.57
70-80	76.19
80-90	28.23
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	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	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	9.9	11.6	10.3	11.9	12.2	9.8	11.4	10.2	11.8	12.1
	3H	11.5	13.0	11.9	13.3	13.7	11.4	12.9	11.8	13.2	13.6
	4H	12.1	13.5	12.5	13.8	14.2	12.0	13.4	12.4	13.7	14.1
	6H	12.5	13.8	12.9	14.1	14.5	12.3	13.6	12.7	14.0	14.4
	8H	12.6	13.8	13.0	14.2	14.6	12.5	13.7	12.9	14.1	14.5
	12H	12.7	13.9	13.1	14.2	14.7	12.5	13.7	12.9	14.1	14.5

UGR Viewed Endwise

4H	2H	10.4	11.8	10.8	12.2	12.6	10.3	11.7	10.7	12.1	12.5
	3H	12.2	13.4	12.6	13.8	14.2	12.1	13.3	12.5	13.7	14.1
	4H	12.9	14.0	13.3	14.4	14.8	12.8	13.9	13.2	14.3	14.7
	6H	13.4	14.3	13.8	14.8	15.2	13.3	14.2	13.7	14.7	15.1
	8H	13.5	14.4	14.0	14.9	15.3	13.4	14.3	13.9	14.8	15.2
	12H	13.7	14.5	14.2	15.0	15.4	13.6	14.3	14.0	14.8	15.3

8H	4H	13.1	14.0	13.6	14.4	14.9	13.0	13.9	13.5	14.3	14.8
	6H	13.7	14.5	14.2	14.9	15.4	13.6	14.3	14.1	14.8	15.3
	8H	13.9	14.6	14.5	15.1	15.6	13.8	14.5	14.3	15.0	15.5
	12H	14.1	14.7	14.6	15.2	15.8	14.0	14.6	14.5	15.1	15.6

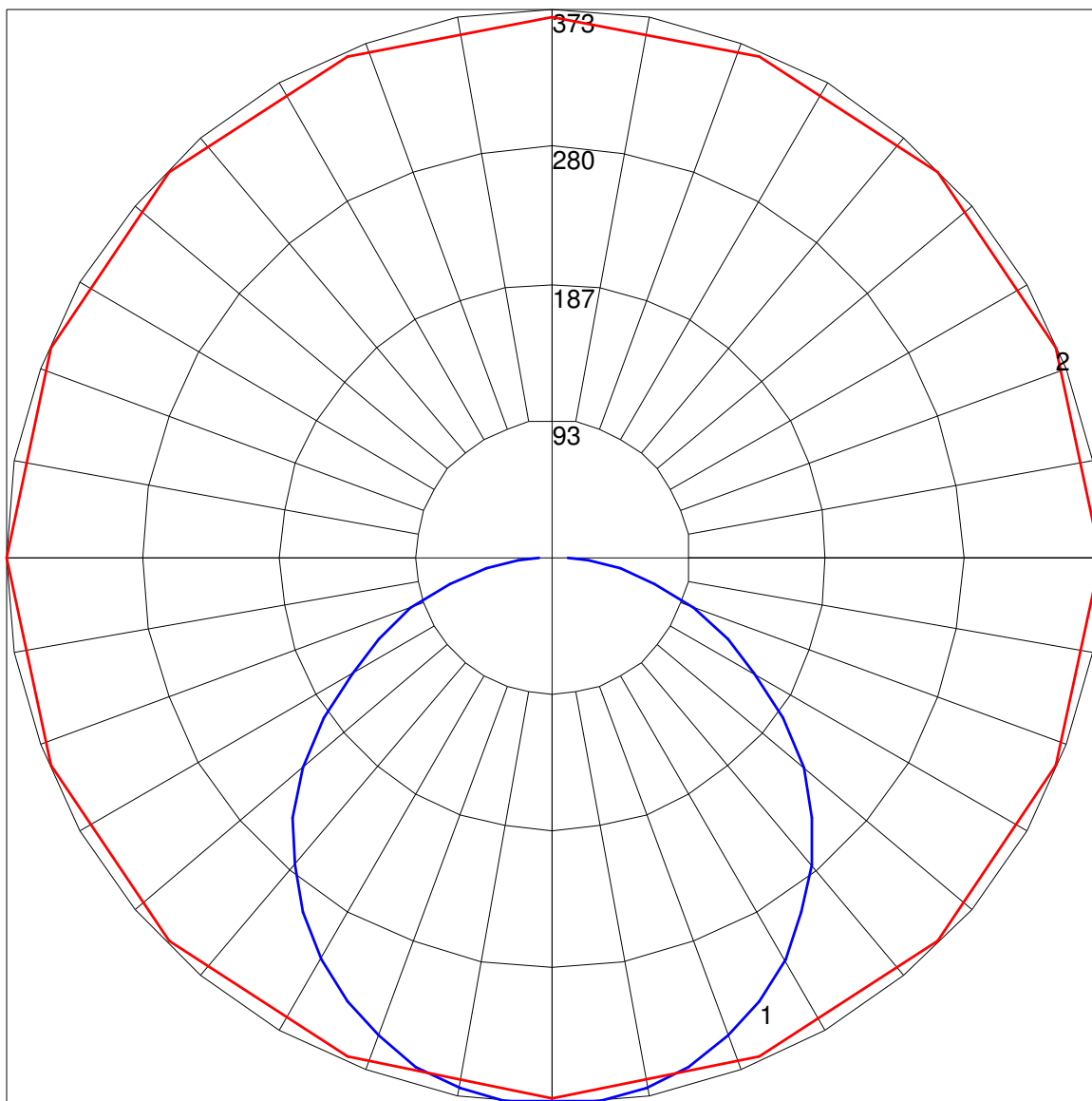
12H	4H	13.1	13.9	13.6	14.4	14.9	13.1	13.8	13.5	14.3	14.8
	6H	13.8	14.4	14.3	14.9	15.4	13.6	14.3	14.2	14.8	15.3
	8H	14.0	14.6	14.5	15.1	15.7	13.9	14.5	14.4	15.0	15.5

Maximum UGR = 15.8

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POLAR GRAPH



Maximum Candela = 373.458 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.)