

IES INDOOR REPORT

PHOTOMETRIC FILENAME : RNDX-2-L25-835-FXA-EM-10W-DIM-UNV_EM 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] 05/23/2023

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 8-28 LED 11"ARRAYS 26"DIA SURFACE LUMINAIRE w/WHITE REFL

[MORE] WHITE FROST ACRYLIC 26"DIA CONVEX LENS & INTERNAL ACRYLIC

[MORE] LIGHT SEAL RING EVERLINE #D700C30UNVTZ-C @ 672mA

[LUMCAT] RNDX-2-L25-835-FXA-EM-10W-DIM-UNV (EM MODE ONLY)

[LAMPCAT] HLM 80 CRI

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1040
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	785	766	771
55	673	664	668
65	548	546	548
75	387	389	375
85	187	177	184

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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	360.877	360.877	360.877	360.877	360.877
5	362.987	360.877	360.455	358.766	358.766
10	357.922	357.078	356.234	354.545	354.545
15	350.747	350.325	349.480	348.636	348.214
20	338.929	338.506	338.084	336.396	337.662
25	324.578	325.844	323.312	323.734	323.734
30	308.961	309.805	306.851	308.539	307.695
35	288.279	288.279	287.435	287.013	285.747
40	266.331	264.643	263.799	263.377	262.955
45	243.961	239.740	238.052	238.474	239.740
50	217.370	216.104	211.039	213.149	213.571
55	185.714	189.513	183.182	185.292	184.448
60	154.481	158.701	154.058	155.747	156.169
65	127.468	127.045	127.045	127.468	127.468
70	100.032	97.500	99.188	97.078	97.922
75	70.487	69.221	70.909	67.110	68.377
80	45.162	45.162	43.896	43.052	43.474
85	23.636	24.058	22.370	23.214	23.214
90	9.708	9.286	10.552	10.130	10.974

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Zone	Lumens	%Lamp	%Fixt
0-20	132.74	N.A.	12.80
0-30	282.24	N.A.	27.10
0-40	462.00	N.A.	44.40
0-60	812.78	N.A.	78.10
0-80	1012.77	N.A.	97.40
0-90	1040.2	N.A.	100.00
10-90	1005.96	N.A.	96.70
20-40	329.26	N.A.	31.70
20-50	514.15	N.A.	49.40
40-70	476.72	N.A.	45.80
60-80	199.99	N.A.	19.20
70-80	74.05	N.A.	7.10
80-90	27.44	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	1040.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	34.24
10-20	98.49
20-30	149.50
30-40	179.76
40-50	184.88
50-60	165.90
60-70	125.93
70-80	74.05
80-90	27.44
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	9.8	11.5	10.2	11.8	12.1	9.7	11.3	10.1	11.7	12.0
	3H	11.4	12.9	11.8	13.2	13.6	11.3	12.8	11.7	13.1	13.5
	4H	12.0	13.4	12.4	13.7	14.1	11.9	13.3	12.3	13.6	14.0
	6H	12.4	13.7	12.8	14.0	14.4	12.2	13.5	12.6	13.9	14.3
	8H	12.5	13.7	12.9	14.1	14.5	12.4	13.6	12.8	14.0	14.4
	12H	12.6	13.8	13.0	14.1	14.6	12.4	13.6	12.8	14.0	14.4

UGR Viewed Endwise

4H	2H	10.3	11.7	10.7	12.1	12.5	10.2	11.6	10.6	12.0	12.4
	3H	12.1	13.3	12.5	13.7	14.1	12.0	13.2	12.4	13.6	14.0
	4H	12.8	13.9	13.2	14.3	14.7	12.7	13.8	13.1	14.2	14.6
	6H	13.3	14.2	13.7	14.7	15.1	13.2	14.1	13.6	14.5	15.0
	8H	13.4	14.3	13.9	14.8	15.2	13.3	14.2	13.8	14.7	15.1
	12H	13.6	14.4	14.1	14.9	15.3	13.5	14.2	13.9	14.7	15.2

8H	4H	13.0	13.9	13.5	14.3	14.8	12.9	13.8	13.4	14.2	14.7
	6H	13.6	14.4	14.1	14.8	15.3	13.5	14.2	14.0	14.7	15.2
	8H	13.8	14.5	14.4	15.0	15.5	13.7	14.4	14.2	14.9	15.4
	12H	14.0	14.6	14.5	15.1	15.7	13.9	14.5	14.4	15.0	15.5

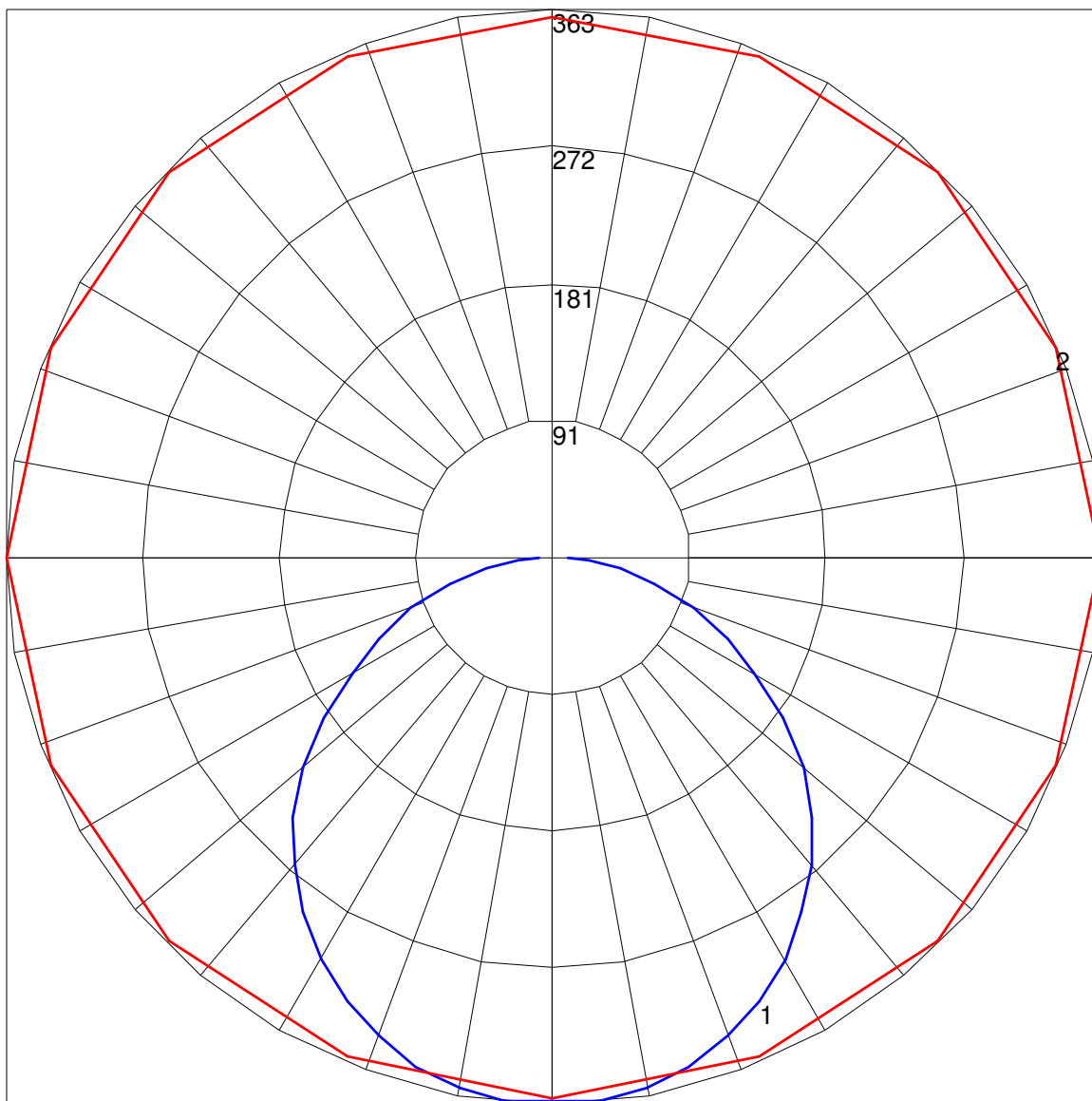
12H	4H	13.0	13.8	13.5	14.3	14.8	13.0	13.7	13.4	14.2	14.7
	6H	13.7	14.3	14.2	14.8	15.3	13.5	14.2	14.1	14.7	15.2
	8H	13.9	14.5	14.4	15.0	15.6	13.8	14.4	14.3	14.9	15.4

Maximum UGR = 15.7

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POLAR GRAPH



Maximum Candela = 362.987 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.)