



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : RNDX-2-L45-835-FXA-(L36)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM BALLABS TEST NO. 18645.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 12-FEB-2015  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] 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-L45-835-FXA-(L36)-DIM-UNV  
 [LAMPCAT] M525C835D28N11S

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3699
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	39
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	2790	2723	2742
55	2393	2360	2377
65	1949	1942	1949
75	1376	1384	1334
85	666	630	654

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1283.194	1283.194	1283.194	1283.194	1283.194
<b>5</b>	1290.698	1283.194	1281.693	1275.690	1275.690
<b>10</b>	1272.689	1269.687	1266.685	1260.682	1260.682
<b>15</b>	1247.175	1245.674	1242.672	1239.671	1238.170
<b>20</b>	1205.152	1203.651	1202.150	1196.147	1200.650
<b>25</b>	1154.124	1158.627	1149.622	1151.123	1151.123
<b>30</b>	1098.594	1101.596	1091.090	1097.094	1094.092
<b>35</b>	1025.055	1025.055	1022.053	1020.552	1016.050
<b>40</b>	947.012	941.009	938.008	936.507	935.006
<b>45</b>	867.469	852.461	846.458	847.959	852.461
<b>50</b>	772.918	768.416	750.406	757.910	759.411
<b>55</b>	660.357	673.865	651.352	658.856	655.855
<b>60</b>	549.297	564.305	547.796	553.800	555.300
<b>65</b>	453.245	451.744	451.744	453.245	453.245
<b>70</b>	355.692	346.688	352.691	345.187	348.188
<b>75</b>	250.636	246.133	252.136	238.629	243.132
<b>80</b>	160.587	160.587	156.084	153.083	154.584
<b>85</b>	84.045	85.546	79.543	82.545	82.545
<b>90</b>	34.519	33.018	37.520	36.019	39.021

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Zone	Lumens	%Lamp	%Fixt
0-20	471.98	N.A.	12.80
0-30	1003.58	N.A.	27.10
0-40	1642.76	N.A.	44.40
0-60	2890.06	N.A.	78.10
0-80	3601.17	N.A.	97.40
0-90	3698.73	N.A.	100.00
10-90	3576.97	N.A.	96.70
20-40	1170.78	N.A.	31.70
20-50	1828.18	N.A.	49.40
40-70	1695.09	N.A.	45.80
60-80	711.11	N.A.	19.20
70-80	263.32	N.A.	7.10
80-90	97.56	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	3698.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	121.76
10-20	350.22
20-30	531.59
30-40	639.19
40-50	657.41
50-60	589.90
60-70	447.79
70-80	263.32
80-90	97.56
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	74	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	75	62	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	14.3	16.0	14.7	16.3	16.6	14.2	15.8	14.6	16.2	16.5
	3H	15.9	17.4	16.3	17.7	18.1	15.8	17.3	16.2	17.6	18.0
	4H	16.5	17.9	16.9	18.2	18.6	16.4	17.8	16.8	18.1	18.5
	6H	16.9	18.2	17.3	18.5	18.9	16.7	18.0	17.1	18.4	18.8
	8H	17.0	18.2	17.4	18.6	19.0	16.9	18.1	17.3	18.5	18.9
	12H	17.1	18.3	17.5	18.6	19.1	16.9	18.1	17.4	18.5	18.9

### UGR Viewed Endwise

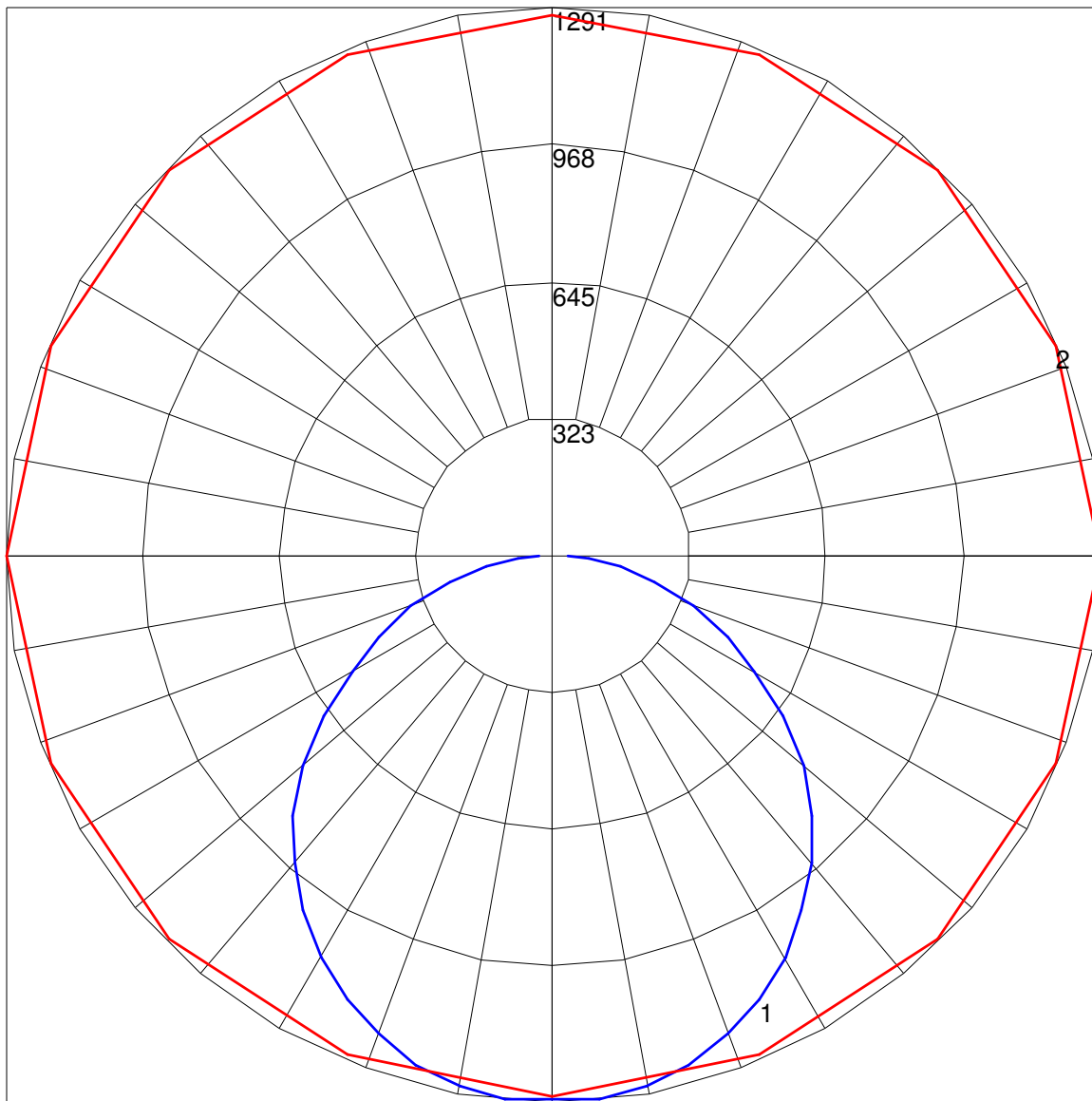
4H	2H	14.8	16.2	15.2	16.6	17.0	14.7	16.1	15.1	16.5	16.9
	3H	16.6	17.8	17.0	18.2	18.6	16.5	17.7	16.9	18.1	18.5
	4H	17.3	18.4	17.7	18.8	19.2	17.2	18.3	17.6	18.7	19.1
	6H	17.8	18.7	18.2	19.2	19.6	17.7	18.6	18.1	19.1	19.5
	8H	17.9	18.8	18.4	19.3	19.7	17.8	18.7	18.3	19.2	19.6
	12H	18.1	18.9	18.6	19.4	19.8	18.0	18.7	18.4	19.2	19.7

8H	4H	17.5	18.4	18.0	18.8	19.3	17.4	18.3	17.9	18.7	19.2
	6H	18.1	18.9	18.6	19.3	19.8	18.0	18.7	18.5	19.2	19.7
	8H	18.3	19.0	18.9	19.5	20.0	18.2	18.9	18.7	19.4	19.9
	12H	18.5	19.1	19.0	19.6	20.2	18.4	19.0	18.9	19.5	20.0

12H	4H	17.5	18.3	18.0	18.8	19.3	17.5	18.2	17.9	18.7	19.2
	6H	18.2	18.8	18.7	19.3	19.8	18.0	18.7	18.6	19.2	19.7
	8H	18.4	19.0	18.9	19.5	20.1	18.3	18.9	18.8	19.4	19.9

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 1290.698 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.)