



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 24RTC-40-UNV-L835-CD1-U.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] P253117
 [MORE] TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-719-3)
 [TESTLAB] INNOVATIONS CENTER(G2)
 [ISSUE DATE] 6/1/2018
 [MANUFAC] EATON - METALUX (FORMER COOPER LIGHTING)
 [LUMCAT] 24RTC-40-UNV-L835-CD1-U
 [LUMINAIRE] 2X4 RTC
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_CRI] 80
 [_SEARCH_COLORTEMP] 3500
 [_SEARCH_APPLICATION] Indoor, Commercial, Educational, Entertainment, Hallway, Healthcare, Hospitality, Hotel, Medical, Office
 [_SEARCH_MOUNTING] Ceiling, Recessed
 [_ABSOLUTE] DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
 [MORE] ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS
 [MORE] CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER
 [MORE] WITH TEST DISTANCE OF 28.75 FEET
 [_ABSOLUTELUMENS] 3631
 [_LAI_DEMO_DATA] This data provided courtesy of Eaton. Data may not represent currently available products.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3631
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	28.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft



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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1409	1527	1628
55	1325	1496	1670
65	1206	1495	1791
75	1003	1560	2099
85	563	2017	2998

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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>
0.0	1205.1	1205.1	1205.1	1205.1	1205.1
2.5	1212.2	1201.6	1206.3	1202.8	1196.9
5.0	1206.3	1196.9	1201.6	1199.2	1195.7
7.5	1198.1	1188.6	1195.7	1193.4	1193.4
10.0	1186.3	1176.9	1185.1	1185.1	1185.1
12.5	1171.0	1162.7	1173.3	1174.5	1175.7
15.0	1150.9	1145.1	1159.2	1162.7	1163.9
17.5	1129.7	1123.8	1140.3	1146.2	1148.6
20.0	1105.0	1100.3	1120.3	1126.2	1130.9
22.5	1076.7	1074.4	1096.8	1103.8	1110.9
25.0	1046.1	1046.1	1070.8	1081.4	1087.3
27.5	1013.1	1015.5	1043.7	1056.7	1063.8
30.0	978.9	982.5	1014.3	1029.6	1039.0
32.5	946.0	947.1	982.5	1002.5	1011.9
35.0	907.1	913.0	947.1	970.7	984.8
37.5	864.7	876.5	913.0	938.9	954.2
40.0	827.0	834.1	877.6	905.9	923.6
42.5	781.0	798.7	839.9	872.9	890.6
45.0	741.0	752.8	803.4	837.6	856.4
47.5	697.4	713.9	762.2	802.2	822.3
50.0	652.6	669.1	722.1	765.7	785.8
52.5	607.9	627.9	679.7	728.0	750.4
55.0	565.5	585.5	638.5	689.2	712.7
57.5	518.3	538.4	597.3	650.3	675.0
60.0	472.4	492.4	554.9	612.6	638.5
62.5	428.8	450.0	512.4	574.9	600.8
65.0	379.3	406.4	470.0	534.8	563.1
67.5	336.9	360.5	427.6	496.0	525.4
70.0	285.1	315.7	385.2	457.1	485.4
72.5	239.1	268.6	342.8	415.8	445.3
75.0	193.2	225.0	300.4	374.6	404.1
77.5	148.4	185.0	258.0	332.2	361.7
80.0	106.0	143.7	216.8	285.1	316.9
82.5	68.3	107.2	176.7	235.6	259.2
85.0	36.5	73.0	130.8	175.5	194.4
87.5	13.0	40.1	78.9	115.4	130.8
90.0	1.2	8.2	30.6	55.4	67.1
92.5	0.0	0.0	0.0	5.9	9.4
95.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

135.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	440.03	N.A.	12.10
0-30	931.48	N.A.	25.70
0-40	1522.27	N.A.	41.90
0-60	2708.65	N.A.	74.60
0-80	3491.29	N.A.	96.20
0-90	3625.86	N.A.	99.90
10-90	3511.85	N.A.	96.70
20-40	1082.24	N.A.	29.80
20-50	1698.35	N.A.	46.80
40-70	1652.4	N.A.	45.50
60-80	782.64	N.A.	21.60
70-80	316.61	N.A.	8.70
80-90	134.57	N.A.	3.70
90-110	5.12	N.A.	0.10
90-120	5.12	N.A.	0.10
90-130	5.12	N.A.	0.10
90-150	5.12	N.A.	0.10
90-180	5.12	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	3630.99	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.01
10-20	326.02
20-30	491.45
30-40	590.80
40-50	616.11
50-60	570.27
60-70	466.03
70-80	316.61
80-90	134.57
90-100	5.12
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	102	98	93	105	100	96	92	96	92	89	92	89	86	88	86	83	81	
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67	
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56	
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47	
5	74	61	52	45	72	60	51	45	58	50	44	56	49	43	54	48	43	41	
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36	
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31	
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28	
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25	
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23	

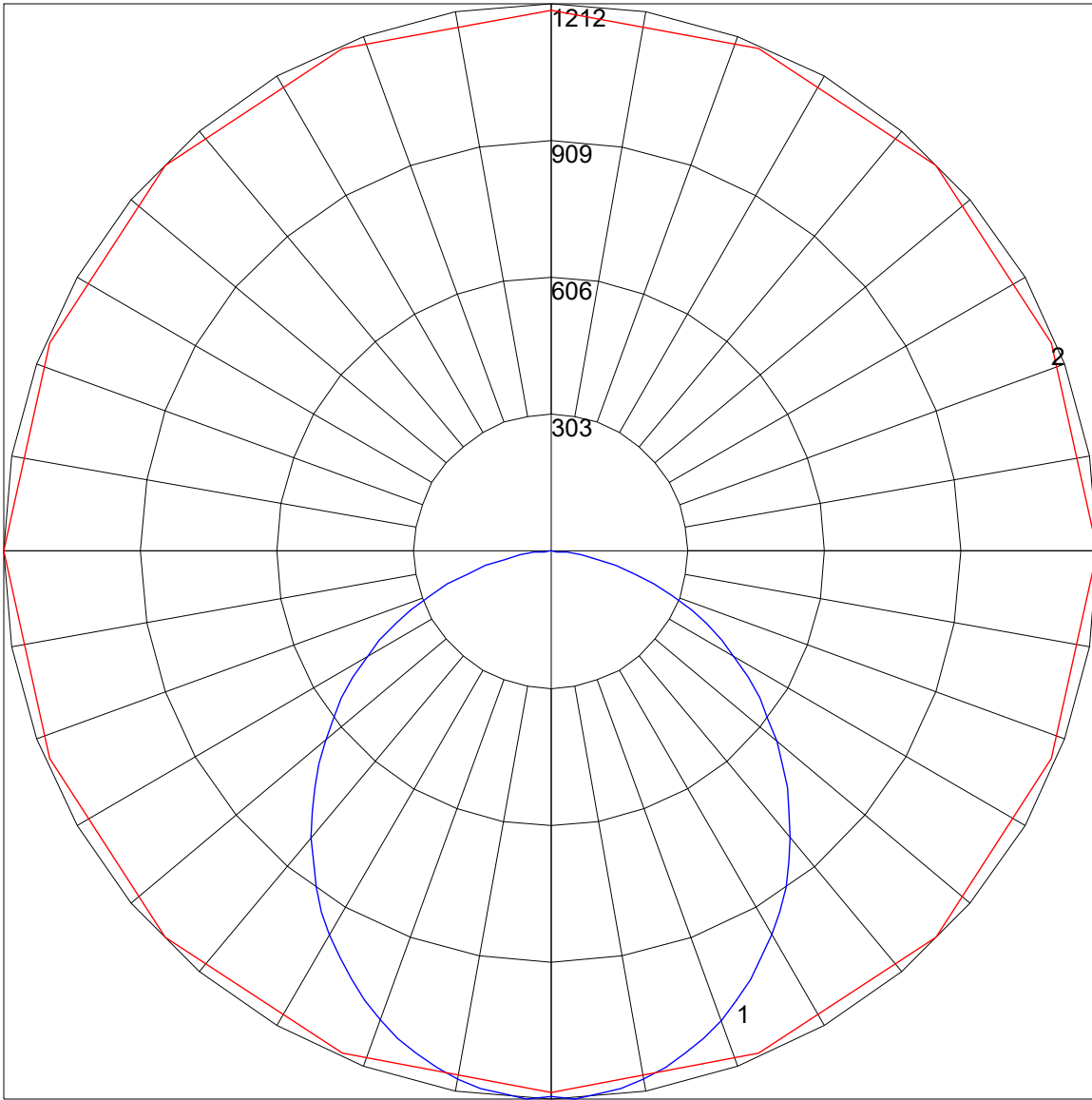
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UGR TABLE - UNCORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	8.2	9.9	8.6	10.2	10.5	9.7	11.3	10.0	11.7	12.0
	3H	10.0	11.5	10.4	11.9	12.2	12.1	13.6	12.5	14.0	14.3
	4H	10.6	12.1	11.0	12.4	12.8	13.2	14.7	13.6	15.0	15.4
	6H	11.1	12.4	11.5	12.8	13.2	14.4	15.7	14.8	16.1	16.5
	8H	11.2	12.5	11.6	12.9	13.3	14.9	16.2	15.3	16.5	16.9
	12H	11.2	12.5	11.7	12.9	13.3	15.3	16.6	15.7	16.9	17.4
4H	2H	9.1	10.6	9.5	10.9	11.3	10.2	11.7	10.6	12.0	12.4
	3H	11.2	12.4	11.6	12.8	13.2	12.9	14.2	13.4	14.6	15.0
	4H	11.9	13.0	12.3	13.4	13.9	14.3	15.4	14.7	15.8	16.2
	6H	12.5	13.4	12.9	13.9	14.3	15.6	16.6	16.0	17.0	17.5
	8H	12.6	13.6	13.1	14.0	14.5	16.2	17.1	16.6	17.6	18.0
	12H	12.7	13.6	13.2	14.0	14.5	16.7	17.6	17.2	18.1	18.5
8H	4H	12.6	13.5	13.0	13.9	14.4	14.6	15.5	15.0	16.0	16.4
	6H	13.3	14.1	13.8	14.6	15.0	16.1	16.9	16.6	17.4	17.8
	8H	13.6	14.3	14.1	14.8	15.3	16.8	17.6	17.4	18.1	18.5
	12H	13.8	14.4	14.3	14.9	15.4	17.6	18.2	18.1	18.7	19.2
12H	4H	12.7	13.6	13.2	14.1	14.5	14.6	15.5	15.1	15.9	16.4
	6H	13.6	14.3	14.1	14.8	15.3	16.2	16.9	16.7	17.3	17.9
	8H	13.9	14.6	14.4	15.1	15.6	17.0	17.6	17.5	18.1	18.7

Maximum UGR = 19.2

POLAR GRAPH



Maximum Candela = 1212.2 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)