

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C3R-LL-00-3-RD-LG.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3158
 [ECN] 3166
 [TESTLAB] Tempo LLC
 [ISSUE DATE] 6/29/2017 6:56:17 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C3R-LL-00-3-RD-LG
 [LUMINAIRE] Gray PVC housing with lightly frosted lens
 [LAMP] Twenty-four (24) red LEDs
 [ELECTRICALS] 24.38 VDC, 0.13 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	83
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	26
Total Luminaire Watts	3.27
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.04 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	11	14	49
75	31	47	166
85	94	144	380

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70.0	0.17	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.20	0.19
80.0	0.22	0.22	0.22	0.24	0.24	0.25	0.25	0.28	0.30	0.32
90.0	0.67	0.67	0.67	0.68	0.67	0.70	0.72	0.74	0.74	0.80
92.5	1.18	1.20	1.22	1.22	1.21	1.22	1.23	1.23	1.23	1.28
95.0	1.93	1.95	1.97	1.99	1.99	2.00	2.01	1.98	1.94	1.94
97.5	2.77	2.78	2.78	2.78	2.78	2.73	2.66	2.56	2.45	2.39
100.0	3.29	3.22	3.15	3.11	3.06	2.94	2.82	2.68	2.54	2.57
102.5	2.93	2.91	2.90	2.82	2.74	2.65	2.57	2.60	2.64	2.90
105.0	2.46	2.49	2.53	2.55	2.57	2.66	2.75	3.02	3.29	3.73
107.5	2.53	2.64	2.75	2.90	3.05	3.35	3.65	4.11	4.56	5.11
110.0	3.36	3.57	3.77	4.07	4.36	4.88	5.39	5.97	6.55	6.98
112.5	5.58	5.82	6.06	6.47	6.87	7.45	8.02	8.45	8.87	8.97
115.0	9.32	9.43	9.54	9.89	10.23	10.55	10.86	10.91	10.96	10.72
117.5	13.29	13.15	13.00	13.14	13.28	13.24	13.19	12.81	12.43	12.08
120.0	15.76	15.59	15.41	15.29	15.16	14.81	14.45	14.01	13.56	13.27
122.5	16.34	16.28	16.22	15.99	15.74	15.50	15.25	15.01	14.76	14.56
125.0	16.47	16.52	16.57	16.44	16.30	16.26	16.21	16.14	16.07	15.88
127.5	17.05	17.09	17.12	17.12	17.10	17.17	17.24	17.27	17.30	17.13
130.0	17.75	17.86	17.97	18.05	18.13	18.33	18.53	18.50	18.46	18.40
132.5	18.79	18.91	19.02	19.12	19.21	19.37	19.53	19.55	19.56	19.56
135.0	19.96	20.06	20.15	20.22	20.28	20.42	20.56	20.54	20.52	20.57
137.5	21.18	21.18	21.17	21.23	21.29	21.38	21.47	21.47	21.47	21.49
140.0	22.21	22.11	22.01	22.11	22.22	22.22	22.21	22.26	22.30	22.25
142.5	23.07	22.98	22.88	22.91	22.92	22.99	23.06	22.96	22.86	22.88
145.0	23.65	23.62	23.59	23.58	23.57	23.58	23.58	23.55	23.51	23.54
147.5	23.90	23.91	23.92	24.06	24.19	24.12	24.04	24.05	24.05	24.11
150.0	24.46	24.47	24.48	24.55	24.61	24.56	24.50	24.50	24.48	24.63
152.5	25.00	25.02	25.03	25.02	25.00	24.95	24.91	25.02	25.12	25.19
155.0	25.37	25.35	25.33	25.40	25.46	25.53	25.59	25.57	25.56	25.65
157.5	25.93	25.81	25.69	25.74	25.78	25.91	26.03	25.96	25.88	25.95
160.0	26.06	26.08	26.10	26.12	26.13	26.20	26.27	26.23	26.19	26.19
162.5	26.25	26.31	26.37	26.41	26.43	26.45	26.47	26.47	26.47	26.45
165.0	26.49	26.54	26.59	26.60	26.60	26.62	26.65	26.70	26.76	26.72
167.5	26.73	26.81	26.88	26.91	26.93	26.97	27.01	27.00	26.99	26.93
170.0	27.01	27.00	26.99	26.99	27.00	27.00	26.99	26.99	26.99	26.96
172.5	26.96	26.92	26.88	26.89	26.90	26.91	26.92	26.90	26.88	26.98
175.0	27.02	27.04	27.06	27.07	27.07	27.10	27.13	27.16	27.18	27.19
177.5	27.19	27.22	27.25	27.28	27.31	27.32	27.33	27.33	27.32	27.34
180.0	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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40.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70.0	0.19	0.20	0.21	0.21	0.20	0.26	0.31	0.37	0.44
80.0	0.33	0.33	0.33	0.30	0.27	0.29	0.30	0.42	0.53
90.0	0.84	0.91	0.98	0.97	0.96	0.78	0.60	0.52	0.43
92.5	1.32	1.39	1.46	1.42	1.38	1.18	0.97	0.82	0.67
95.0	1.94	1.96	1.97	1.95	1.92	1.75	1.57	1.40	1.21
97.5	2.32	2.37	2.42	2.51	2.58	2.44	2.30	2.13	1.96
100.0	2.59	2.81	3.02	3.21	3.39	3.26	3.12	2.95	2.77
102.5	3.15	3.53	3.91	4.11	4.32	4.18	4.03	3.87	3.70
105.0	4.17	4.63	5.09	5.26	5.42	5.23	5.03	4.87	4.71
107.5	5.65	6.05	6.45	6.52	6.58	6.34	6.09	5.94	5.78
110.0	7.39	7.61	7.82	7.76	7.69	7.46	7.23	7.10	6.97
112.5	9.06	9.03	9.00	8.89	8.77	8.56	8.33	8.22	8.11
115.0	10.48	10.29	10.11	9.99	9.87	9.67	9.46	9.38	9.29
117.5	11.72	11.50	11.27	11.12	10.97	10.78	10.59	10.48	10.37
120.0	12.97	12.75	12.53	12.33	12.12	11.93	11.74	11.61	11.47
122.5	14.35	14.11	13.86	13.59	13.32	13.15	12.97	12.84	12.71
125.0	15.67	15.51	15.35	15.02	14.69	14.46	14.21	14.12	14.01
127.5	16.96	16.85	16.75	16.40	16.05	15.81	15.57	15.53	15.49
130.0	18.33	18.18	18.01	17.74	17.46	17.29	17.12	17.04	16.97
132.5	19.56	19.41	19.26	19.06	18.86	18.72	18.58	18.46	18.33
135.0	20.62	20.53	20.44	20.24	20.03	19.99	19.93	19.81	19.67
137.5	21.51	21.47	21.42	21.26	21.09	21.04	20.99	20.92	20.85
140.0	22.20	22.21	22.23	22.22	22.21	22.15	22.09	22.04	21.98
142.5	22.88	22.99	23.09	23.07	23.04	23.03	23.01	23.00	22.99
145.0	23.56	23.65	23.74	23.79	23.84	23.82	23.80	23.67	23.54
147.5	24.16	24.24	24.32	24.33	24.33	24.28	24.23	24.26	24.27
150.0	24.77	24.80	24.84	24.83	24.83	24.82	24.80	24.85	24.90
152.5	25.25	25.23	25.20	25.25	25.29	25.26	25.23	25.20	25.18
155.0	25.73	25.71	25.69	25.60	25.50	25.51	25.52	25.58	25.64
157.5	26.02	26.03	26.04	25.91	25.78	25.83	25.88	25.93	25.98
160.0	26.18	26.26	26.35	26.31	26.27	26.26	26.25	26.18	26.12
162.5	26.42	26.45	26.48	26.51	26.54	26.51	26.48	26.39	26.29
165.0	26.67	26.69	26.71	26.72	26.74	26.76	26.77	26.69	26.60
167.5	26.87	26.87	26.85	26.93	27.00	27.07	27.13	27.10	27.07
170.0	26.93	26.98	27.03	27.10	27.18	27.20	27.23	27.23	27.23
172.5	27.07	27.10	27.13	27.11	27.08	26.99	26.89	26.88	26.86
175.0	27.20	27.17	27.13	27.10	27.07	27.02	26.96	26.94	26.92
177.5	27.36	27.33	27.30	27.32	27.33	27.29	27.24	27.24	27.24
180.0	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.37	N.A.	0.40
0-90	0.94	N.A.	1.10
10-90	0.94	N.A.	1.10
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.11	N.A.	0.10
60-80	0.37	N.A.	0.40
70-80	0.27	N.A.	0.30
80-90	0.57	N.A.	0.70
90-110	6.37	N.A.	7.60
90-120	16.24	N.A.	19.50
90-130	30.23	N.A.	36.20
90-150	60.58	N.A.	72.60
90-180	82.49	N.A.	98.90
110-180	76.12	N.A.	91.20
0-180	83.43	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.11
70-80	0.27
80-90	0.57
90-100	2.04
100-110	4.34
110-120	9.86
120-130	14.00
130-140	15.58
140-150	14.76
150-160	11.78
160-170	7.55
170-180	2.58

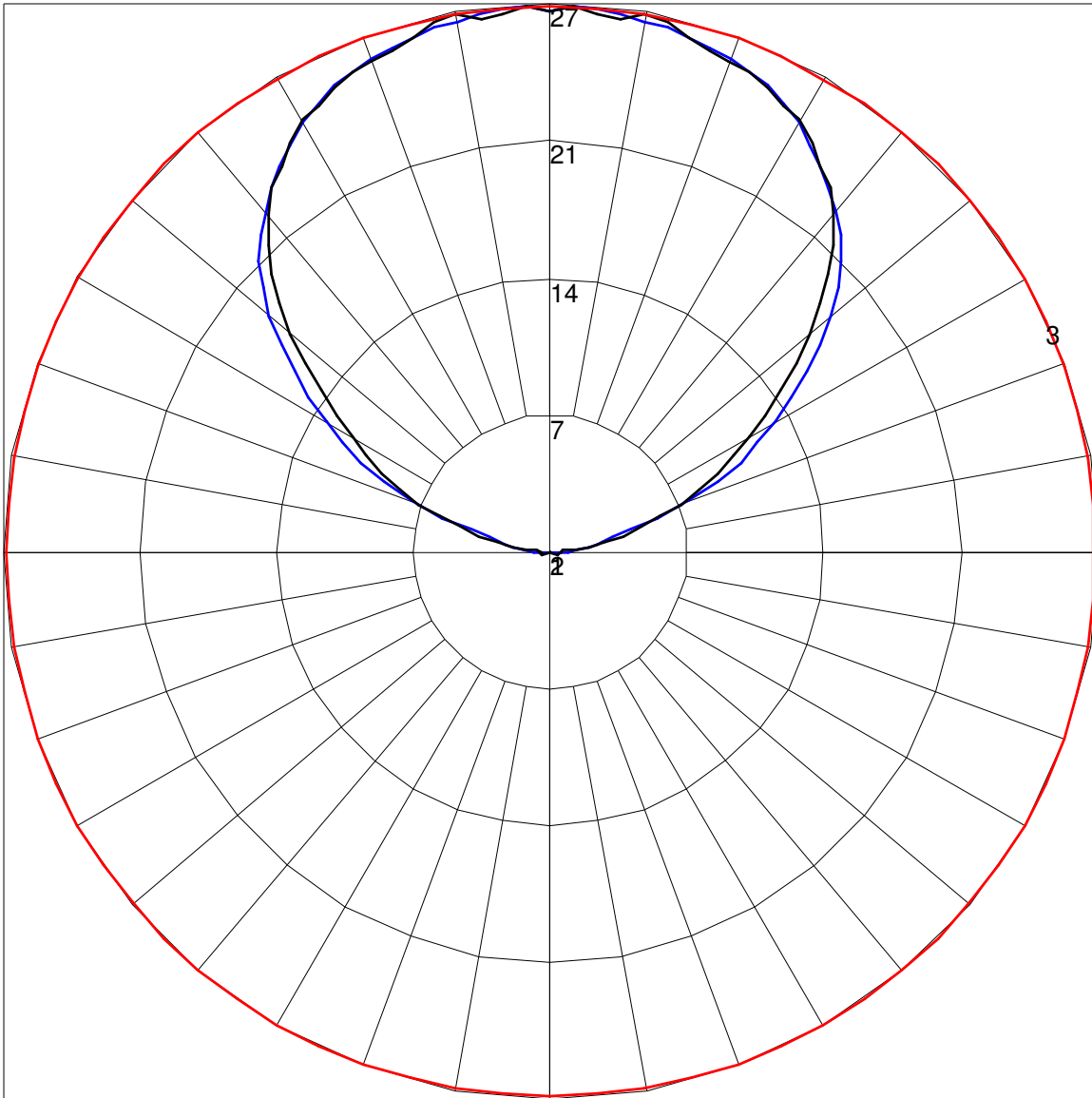
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	96	96	96	96	82	82	82	82	56	56	56	33	33	33	11	11	11	1
1	87	83	79	76	74	71	68	65	49	47	45	28	27	26	9	9	9	0
2	79	72	66	62	67	62	57	53	43	40	37	25	23	22	8	8	7	0
3	72	63	56	51	61	54	49	44	37	34	31	22	20	18	7	7	6	0
4	66	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	6	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	51	39	32	27	43	34	28	23	23	19	17	14	11	10	5	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 27.36 Located At Horizontal Angle = 50, Vertical Angle = 177.5

1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Horizontal Cone Through Vertical Angle (177.5) (Through Max. Cd.)