

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3155
 [ECN] 3166
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 6/28/2017 11:03:41 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C3R-LL-00-3-BL-LG
 [LUMINAIRE] Gray PVC housing with lightly frosted lens
 [LAMP] Twenty-four (24) blue LEDs
 [ELECTRICALS] 23.98 VDC, 0.13 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	63
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	20
Total Luminaire Watts	3.23
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)	0.05 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.02 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	35	40	96
75	96	121	333
85	215	302	832

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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	0.27	0.26	0.23	0.25	0.25	0.26	0.26	0.27	0.27	0.27
80.0	0.33	0.33	0.32	0.31	0.29	0.31	0.33	0.36	0.37	0.37
90.0	0.69	0.76	0.82	0.80	0.77	0.77	0.77	0.76	0.74	0.76
92.5	1.08	1.15	1.22	1.21	1.18	1.18	1.17	1.14	1.11	1.13
95.0	1.62	1.67	1.71	1.71	1.70	1.69	1.67	1.63	1.58	1.55
97.5	2.15	2.13	2.11	2.10	2.09	2.05	2.00	1.92	1.83	1.80
100.0	2.20	2.15	2.10	2.08	2.06	2.01	1.95	1.92	1.88	1.96
102.5	1.99	1.95	1.92	1.92	1.92	1.94	1.95	2.04	2.13	2.34
105.0	1.89	1.92	1.94	1.99	2.03	2.17	2.30	2.50	2.70	3.02
107.5	2.26	2.32	2.36	2.50	2.64	2.87	3.10	3.45	3.79	4.09
110.0	3.18	3.29	3.40	3.59	3.77	4.15	4.53	4.89	5.24	5.39
112.5	5.00	5.14	5.28	5.51	5.73	6.07	6.41	6.57	6.73	6.75
115.0	7.56	7.64	7.72	7.88	8.05	8.14	8.22	8.16	8.10	7.96
117.5	9.92	9.88	9.83	9.86	9.88	9.74	9.60	9.38	9.16	8.95
120.0	11.22	11.17	11.11	10.97	10.82	10.61	10.39	10.20	10.00	9.88
122.5	11.66	11.61	11.56	11.42	11.29	11.15	11.01	10.95	10.90	10.82
125.0	11.98	11.94	11.91	11.87	11.83	11.84	11.84	11.87	11.90	11.83
127.5	12.48	12.51	12.54	12.60	12.67	12.72	12.78	12.84	12.90	12.82
130.0	13.24	13.28	13.31	13.40	13.48	13.60	13.72	13.76	13.79	13.75
132.5	14.10	14.18	14.26	14.34	14.41	14.51	14.59	14.60	14.61	14.60
135.0	15.06	15.09	15.11	15.16	15.21	15.28	15.35	15.35	15.35	15.36
137.5	15.93	15.92	15.91	15.92	15.92	15.97	16.02	16.04	16.06	16.05
140.0	16.65	16.64	16.62	16.60	16.57	16.64	16.69	16.66	16.62	16.61
142.5	17.23	17.20	17.17	17.18	17.19	17.18	17.17	17.17	17.17	17.18
145.0	17.63	17.62	17.59	17.61	17.62	17.63	17.64	17.66	17.68	17.72
147.5	18.08	18.07	18.05	18.05	18.04	18.05	18.06	18.11	18.16	18.18
150.0	18.47	18.47	18.47	18.47	18.45	18.50	18.54	18.56	18.57	18.60
152.5	18.89	18.89	18.88	18.89	18.89	18.92	18.95	18.97	19.00	19.01
155.0	19.31	19.27	19.23	19.24	19.26	19.26	19.26	19.31	19.35	19.34
157.5	19.61	19.58	19.54	19.54	19.53	19.51	19.49	19.53	19.57	19.60
160.0	19.78	19.77	19.76	19.79	19.80	19.80	19.79	19.82	19.84	19.86
162.5	20.01	20.01	20.01	20.02	20.01	20.02	20.02	20.05	20.08	20.12
165.0	20.25	20.24	20.23	20.23	20.22	20.22	20.20	20.25	20.28	20.31
167.5	20.50	20.44	20.39	20.40	20.41	20.41	20.40	20.42	20.44	20.46
170.0	20.72	20.65	20.58	20.57	20.56	20.57	20.58	20.57	20.55	20.57
172.5	20.83	20.74	20.65	20.65	20.65	20.67	20.68	20.70	20.71	20.71
175.0	20.83	20.78	20.73	20.72	20.72	20.72	20.73	20.74	20.74	20.75
177.5	20.78	20.74	20.71	20.72	20.72	20.69	20.66	20.68	20.70	20.71
180.0	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Vert. 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	0.26	0.26	0.24	0.24	0.24	0.27	0.29	0.36	0.41
80.0	0.36	0.36	0.35	0.33	0.31	0.33	0.34	0.42	0.49
90.0	0.79	0.82	0.85	0.81	0.77	0.62	0.47	0.43	0.38
92.5	1.14	1.18	1.21	1.16	1.10	0.91	0.73	0.64	0.54
95.0	1.53	1.54	1.55	1.52	1.49	1.34	1.18	1.06	0.95
97.5	1.77	1.83	1.88	1.93	1.97	1.85	1.72	1.60	1.47
100.0	2.03	2.19	2.35	2.45	2.56	2.42	2.28	2.18	2.08
102.5	2.54	2.79	3.03	3.13	3.23	3.09	2.95	2.85	2.74
105.0	3.33	3.62	3.90	3.96	4.02	3.86	3.69	3.58	3.46
107.5	4.38	4.61	4.83	4.85	4.86	4.69	4.51	4.39	4.28
110.0	5.54	5.65	5.75	5.70	5.66	5.49	5.32	5.22	5.12
112.5	6.76	6.70	6.62	6.55	6.47	6.31	6.15	6.09	6.03
115.0	7.81	7.66	7.50	7.40	7.29	7.14	6.99	6.93	6.88
117.5	8.74	8.58	8.42	8.28	8.13	7.97	7.82	7.79	7.75
120.0	9.76	9.59	9.40	9.21	9.01	8.87	8.72	8.66	8.61
122.5	10.74	10.60	10.46	10.24	10.01	9.84	9.67	9.63	9.58
125.0	11.76	11.64	11.51	11.30	11.08	10.92	10.75	10.70	10.65
127.5	12.74	12.65	12.55	12.39	12.21	12.05	11.88	11.84	11.79
130.0	13.70	13.61	13.52	13.39	13.26	13.13	13.00	12.95	12.89
132.5	14.59	14.51	14.42	14.32	14.21	14.14	14.07	14.04	14.00
135.0	15.37	15.32	15.26	15.17	15.08	15.07	15.06	15.01	14.95
137.5	16.03	16.03	16.03	15.96	15.88	15.86	15.84	15.83	15.83
140.0	16.61	16.65	16.68	16.66	16.64	16.63	16.61	16.61	16.61
142.5	17.18	17.22	17.26	17.27	17.28	17.28	17.29	17.29	17.29
145.0	17.75	17.77	17.79	17.80	17.80	17.84	17.88	17.90	17.92
147.5	18.20	18.22	18.25	18.25	18.24	18.31	18.37	18.38	18.39
150.0	18.62	18.65	18.67	18.67	18.66	18.72	18.77	18.80	18.81
152.5	19.01	19.03	19.04	19.04	19.03	19.08	19.11	19.17	19.22
155.0	19.33	19.34	19.35	19.37	19.38	19.40	19.42	19.45	19.48
157.5	19.63	19.62	19.61	19.66	19.70	19.70	19.69	19.70	19.71
160.0	19.88	19.89	19.90	19.93	19.96	19.95	19.93	19.93	19.94
162.5	20.15	20.17	20.17	20.19	20.20	20.17	20.14	20.14	20.14
165.0	20.32	20.33	20.32	20.34	20.35	20.29	20.23	20.27	20.31
167.5	20.47	20.47	20.46	20.44	20.43	20.40	20.36	20.37	20.38
170.0	20.58	20.58	20.58	20.53	20.49	20.50	20.51	20.53	20.54
172.5	20.71	20.70	20.69	20.67	20.65	20.66	20.66	20.64	20.62
175.0	20.75	20.74	20.72	20.71	20.70	20.71	20.71	20.71	20.70
177.5	20.71	20.68	20.65	20.69	20.72	20.70	20.69	20.67	20.64
180.0	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00

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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	0.46	N.A.	0.70
0-90	1.04	N.A.	1.60
10-90	1.04	N.A.	1.60
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.13	N.A.	0.20
60-80	0.46	N.A.	0.70
70-80	0.32	N.A.	0.50
80-90	0.58	N.A.	0.90
90-110	4.95	N.A.	7.80
90-120	12.40	N.A.	19.60
90-130	22.78	N.A.	36.00
90-150	45.55	N.A.	72.10
90-180	62.16	N.A.	98.40
110-180	57.21	N.A.	90.50
0-180	63.20	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	0.13
70-80	0.32
80-90	0.58
90-100	1.62
100-110	3.33
110-120	7.45
120-130	10.38
130-140	11.69
140-150	11.09
150-160	8.91
160-170	5.73
170-180	1.97

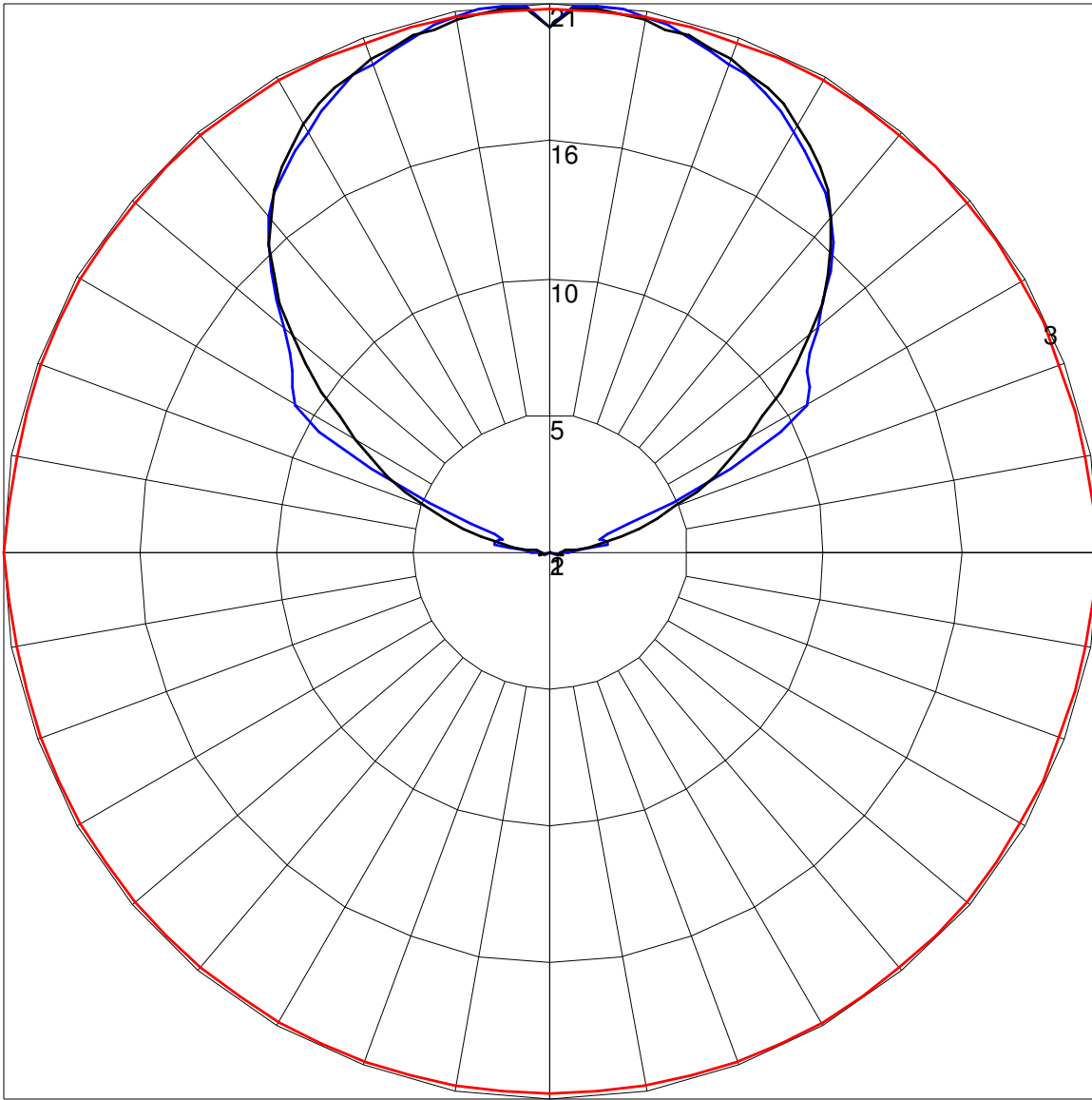
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	57	57	57	33	33	33	12	12	12	2
1	87	83	79	76	74	71	68	65	49	47	45	28	27	27	10	9	9	1
2	79	72	66	61	67	62	57	53	42	40	37	25	23	22	8	8	7	0
3	72	63	56	51	61	54	48	44	37	34	31	22	20	18	7	7	6	0
4	65	55	48	43	56	48	42	37	33	29	26	19	17	15	6	6	5	0
5	60	49	42	36	51	42	36	31	29	25	22	17	15	13	6	5	4	0
6	55	44	36	31	47	38	31	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	16	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	27	22	18	19	15	13	11	9	7	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 = 20.83 Located At Horizontal Angle = 0, Vertical Angle = 172.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

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

3 - Horizontal Cone Through Vertical Angle (172.5) (Through Max. Cd.)