

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C5R-60115-00-120E5-35-NA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3168
 [ECN] 3167
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 7/7/2017 1:55:51 PM
 [MANUFAC] Tempo LLC
 [LUMCAT] C5R-60115-00-120E5-35-NA
 [LUMINAIRE] Light gray aluminum housing with lightly frosted lens
 [LAMP] Sixteen (16) white LEDs (3500K) with 60 deg x 115 deg optic
 [ELECTRICALS] 120.09 VAC, 0.04 A, 0.9928 PF, 11% ATHD

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	334
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	4.88
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)	0.10 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.42 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15	20	97
55	19	21	131
65	27	28	210
75	44	43	301
85	69	76	323

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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	0.50	0.50	0.50	0.50	0.49	0.50	0.50	0.51	0.52	0.56
50.0	0.55	0.55	0.55	0.54	0.53	0.53	0.53	0.55	0.56	0.58
60.0	0.85	0.84	0.83	0.82	0.81	0.78	0.75	0.72	0.69	0.70
70.0	1.29	1.28	1.27	1.26	1.25	1.23	1.21	1.17	1.12	1.05
80.0	2.24	2.22	2.19	2.14	2.08	2.01	1.94	1.85	1.76	1.66
90.0	3.24	3.23	3.22	3.21	3.18	3.15	3.12	3.11	3.09	3.03
92.5	3.52	3.52	3.51	3.51	3.51	3.51	3.51	3.54	3.57	3.57
95.0	3.84	3.84	3.83	3.85	3.87	3.91	3.94	4.02	4.09	4.17
97.5	4.16	4.18	4.19	4.24	4.28	4.37	4.45	4.59	4.73	4.91
100.0	4.55	4.61	4.66	4.72	4.79	4.92	5.05	5.29	5.54	5.80
102.5	5.05	5.10	5.15	5.26	5.36	5.55	5.73	6.03	6.32	6.83
105.0	5.67	5.73	5.79	5.94	6.08	6.33	6.57	6.95	7.33	7.91
107.5	6.42	6.50	6.58	6.76	6.93	7.25	7.55	8.04	8.53	9.26
110.0	7.34	7.43	7.52	7.75	7.97	8.34	8.70	9.30	9.90	10.83
112.5	8.43	8.55	8.66	8.92	9.18	9.64	10.10	10.81	11.53	12.63
115.0	9.74	9.85	9.96	10.26	10.55	11.11	11.66	12.53	13.40	14.74
117.5	11.20	11.34	11.48	11.85	12.22	12.88	13.54	14.58	15.60	17.19
120.0	12.90	13.07	13.23	13.68	14.12	14.93	15.74	16.99	18.24	20.11
122.5	14.89	15.11	15.32	15.86	16.38	17.35	18.31	19.84	21.37	23.58
125.0	17.25	17.52	17.78	18.43	19.09	20.30	21.50	23.34	25.17	27.73
127.5	20.14	20.46	20.78	21.57	22.34	23.81	25.27	27.50	29.72	32.77
130.0	23.72	24.14	24.55	25.55	26.55	28.31	30.06	32.70	35.33	38.86
132.5	28.32	28.83	29.34	30.53	31.72	33.82	35.91	39.04	42.16	46.26
135.0	34.19	34.80	35.41	36.84	38.26	40.69	43.11	46.73	50.35	55.03
137.5	41.51	42.27	43.01	44.69	46.35	49.14	51.91	56.03	60.14	65.31
140.0	50.67	51.51	52.33	54.17	56.00	59.14	62.29	66.90	71.50	77.29
142.5	61.51	62.48	63.45	65.58	67.72	71.22	74.72	79.75	84.78	90.83
145.0	74.44	75.55	76.66	78.96	81.26	85.09	88.92	94.28	99.64	105.83
147.5	89.98	91.01	92.03	94.49	96.96	100.98	105.01	110.38	115.76	121.67
150.0	107.49	108.41	109.33	111.87	114.42	118.37	122.32	127.37	132.42	137.71
152.5	126.63	127.18	127.73	130.07	132.40	136.03	139.65	144.24	148.83	153.45
155.0	145.85	146.20	146.55	148.75	150.95	154.03	157.10	160.81	164.53	168.06
157.5	164.55	164.48	164.41	166.05	167.69	170.17	172.65	175.60	178.54	181.22
160.0	181.08	180.85	180.61	181.82	183.02	184.83	186.64	188.68	190.72	192.30
162.5	194.65	194.43	194.21	195.08	195.95	197.05	198.15	199.32	200.49	201.13
165.0	205.50	205.14	204.78	205.11	205.44	205.98	206.51	207.02	207.52	207.69
167.5	212.55	212.44	212.32	212.54	212.75	212.77	212.78	212.67	212.55	212.06
170.0	217.11	216.71	216.30	216.14	215.97	215.76	215.55	215.31	215.06	214.63
172.5	218.44	218.09	217.73	217.57	217.40	217.17	216.93	216.58	216.22	215.75
175.0	218.02	217.67	217.30	217.21	217.12	216.92	216.71	216.51	216.30	215.97
177.5	217.15	216.69	216.23	216.10	215.97	215.93	215.89	215.85	215.82	215.85
180.0	215.00	215.00	215.00	215.00	215.00	215.00	215.00	215.00	215.00	215.00

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	0.59	0.63	0.67	0.71	0.74	0.79	0.83	0.87	0.91
50.0	0.59	0.64	0.69	0.75	0.81	0.89	0.96	0.96	0.97
60.0	0.71	0.74	0.76	0.85	0.94	1.05	1.15	1.25	1.35
70.0	0.98	0.92	0.86	0.93	0.98	1.18	1.37	1.64	1.90
80.0	1.56	1.41	1.26	1.17	1.07	1.16	1.24	1.60	1.96
90.0	2.98	2.83	2.68	2.40	2.12	1.73	1.35	1.27	1.18
92.5	3.56	3.50	3.43	3.22	3.01	2.65	2.29	2.14	2.00
95.0	4.25	4.31	4.38	4.34	4.30	4.16	4.02	4.00	3.98
97.5	5.09	5.31	5.53	5.76	5.99	6.20	6.41	6.60	6.77
100.0	6.06	6.48	6.89	7.46	8.02	8.70	9.37	9.79	10.20
102.5	7.33	7.92	8.50	9.43	10.35	11.51	12.66	13.36	14.05
105.0	8.48	9.41	10.32	11.66	12.98	14.63	16.26	17.16	18.06
107.5	10.00	11.16	12.32	14.10	15.87	18.01	20.15	21.29	22.42
110.0	11.76	13.18	14.60	16.79	18.99	21.62	24.24	25.59	26.93
112.5	13.74	15.42	17.09	19.70	22.30	25.38	28.45	30.00	31.55
115.0	16.08	18.05	20.01	22.95	25.88	29.30	32.72	34.40	36.09
117.5	18.77	21.03	23.29	26.53	29.78	33.44	37.09	38.90	40.70
120.0	21.96	24.55	27.13	30.67	34.21	37.99	41.76	43.58	45.40
122.5	25.78	28.72	31.65	35.46	39.26	43.10	46.93	48.77	50.60
125.0	30.30	33.65	37.01	41.10	45.19	49.06	52.92	54.68	56.43
127.5	35.80	39.66	43.52	47.85	52.17	55.95	59.73	61.39	63.05
130.0	42.38	46.74	51.10	55.68	60.24	63.99	67.73	69.33	70.92
132.5	50.35	55.21	60.06	64.86	69.66	73.35	77.04	78.56	80.08
135.0	59.71	65.04	70.36	75.37	80.39	84.01	87.63	88.96	90.29
137.5	70.49	76.30	82.10	87.20	92.28	95.75	99.21	100.34	101.46
140.0	83.07	89.22	95.35	100.28	105.20	108.26	111.30	112.22	113.12
142.5	96.88	103.03	109.18	113.92	118.66	121.32	123.98	124.69	125.40
145.0	112.02	117.91	123.80	128.03	132.25	134.33	136.41	136.92	137.43
147.5	127.57	132.95	138.33	141.91	145.49	146.95	148.41	148.73	149.04
150.0	143.00	147.62	152.24	155.06	157.89	158.84	159.78	159.84	159.90
152.5	158.07	161.81	165.55	167.47	169.37	169.60	169.82	169.64	169.47
155.0	171.58	174.24	176.89	178.05	179.21	179.10	178.97	178.74	178.50
157.5	183.90	185.55	187.19	187.50	187.80	187.18	186.56	186.29	186.02
160.0	193.88	194.61	195.33	195.07	194.81	194.04	193.28	192.91	192.55
162.5	201.77	201.79	201.81	201.19	200.56	199.72	198.87	198.54	198.21
165.0	207.87	207.45	207.02	206.10	205.16	204.28	203.39	203.06	202.73
167.5	211.57	210.83	210.09	209.37	208.64	208.01	207.38	207.15	206.93
170.0	214.20	213.54	212.88	212.15	211.41	210.80	210.19	210.07	209.95
172.5	215.28	214.72	214.14	213.71	213.26	212.93	212.59	212.53	212.47
175.0	215.63	215.36	215.08	214.84	214.59	214.43	214.27	214.26	214.26
177.5	215.89	215.76	215.63	215.53	215.42	215.25	215.07	215.06	215.05
180.0	215.00	215.00	215.00	215.00	215.00	215.00	215.00	215.00	215.00

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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	0.19	N.A.	0.10
0-60	1.37	N.A.	0.40
0-80	3.91	N.A.	1.20
0-90	6.28	N.A.	1.90
10-90	6.28	N.A.	1.90
20-40	0.19	N.A.	0.10
20-50	0.69	N.A.	0.20
40-70	2.20	N.A.	0.70
60-80	2.53	N.A.	0.80
70-80	1.52	N.A.	0.50
80-90	2.37	N.A.	0.70
90-110	14.83	N.A.	4.40
90-120	32.97	N.A.	9.90
90-130	61.84	N.A.	18.50
90-150	174.14	N.A.	52.20
90-180	327.58	N.A.	98.10
110-180	312.74	N.A.	93.70
0-180	333.86	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	0.19
40-50	0.50
50-60	0.68
60-70	1.01
70-80	1.52
80-90	2.37
90-100	4.62
100-110	10.21
110-120	18.14
120-130	28.87
130-140	45.80
140-150	66.50
150-160	75.34
160-170	57.55
170-180	20.55

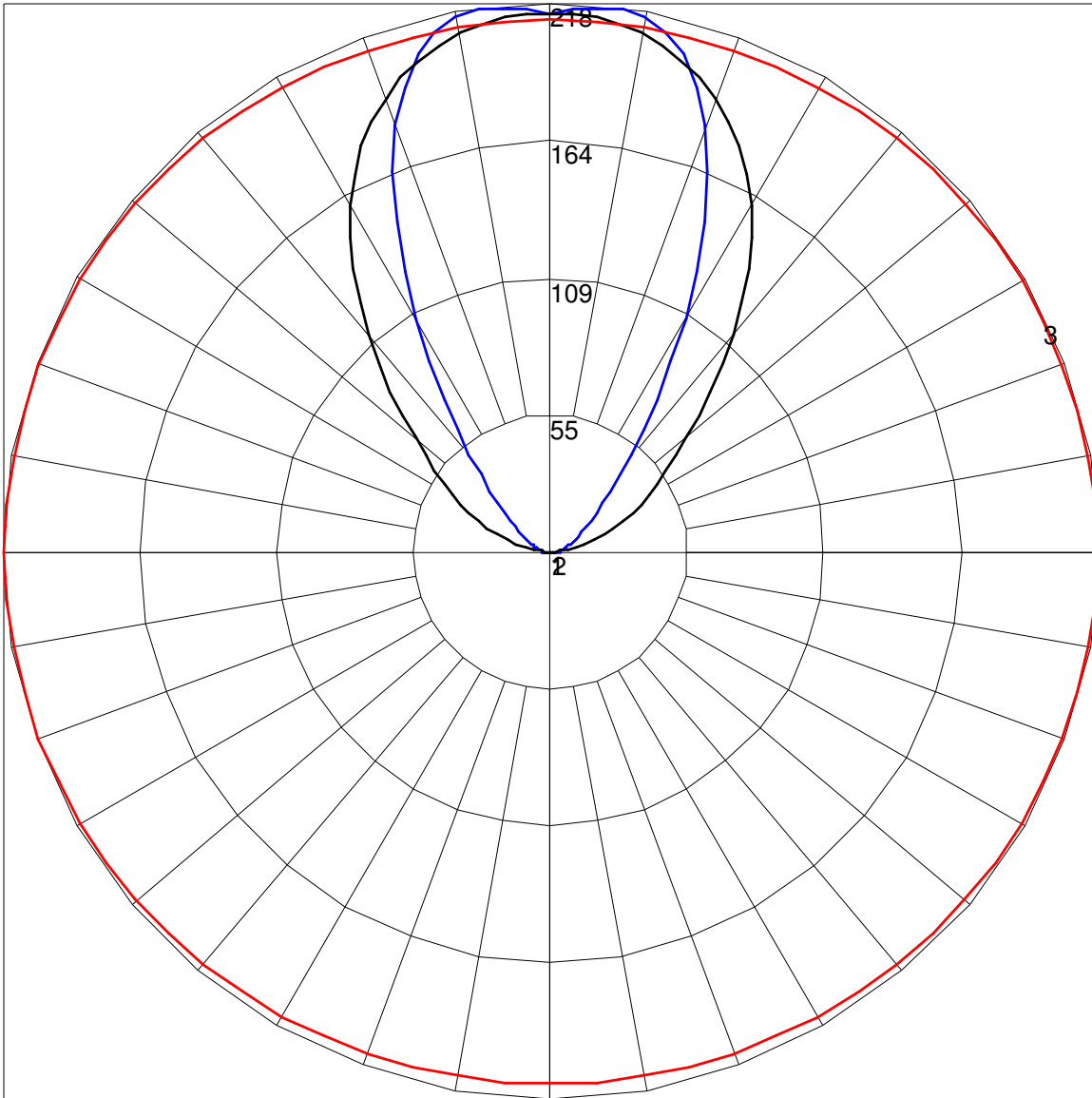
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	75	74	71	68	65	49	47	45	29	28	27	10	10	9	1
2	79	72	66	61	67	62	57	53	42	40	37	25	23	22	9	8	8	1
3	72	63	56	51	61	54	48	44	37	34	31	22	20	18	7	7	6	0
4	65	55	48	42	56	48	42	37	33	29	26	19	17	16	7	6	5	0
5	60	49	41	36	51	42	36	31	29	25	22	17	15	13	6	5	5	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	27	23	23	19	16	14	12	10	5	4	3	0
8	46	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	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	4	3	2	0

POLAR GRAPH



Maximum Candela = 218.44 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.)