

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3168
 [ECN] 3338
 [TESTLAB] Tempo LLC
 [ISSUE DATE] 7/7/2017 Revised 12/12/2017
 [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	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.02
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	998	1949	9311
55	463	914	6371
65	248	468	4659
75	142	249	2821
85	97	135	819

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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	215.81	215.81	215.81	215.81	215.81	215.81	215.81	215.81	215.81	215.81
2.5	217.15	216.69	216.23	216.10	215.97	215.93	215.89	215.85	215.82	215.85
5.0	218.02	217.67	217.30	217.21	217.12	216.92	216.71	216.51	216.30	215.97
7.5	218.44	218.09	217.73	217.57	217.40	217.17	216.93	216.58	216.22	215.75
10.0	217.11	216.71	216.30	216.14	215.97	215.76	215.55	215.31	215.06	214.63
12.5	212.55	212.44	212.32	212.54	212.75	212.77	212.78	212.67	212.55	212.06
15.0	205.50	205.14	204.78	205.11	205.44	205.98	206.51	207.02	207.52	207.69
17.5	194.65	194.43	194.21	195.08	195.95	197.05	198.15	199.32	200.49	201.13
20.0	181.08	180.85	180.61	181.82	183.02	184.83	186.64	188.68	190.72	192.30
22.5	164.55	164.48	164.41	166.05	167.69	170.17	172.65	175.60	178.54	181.22
25.0	145.85	146.20	146.55	148.75	150.95	154.03	157.10	160.81	164.53	168.06
27.5	126.63	127.18	127.73	130.07	132.40	136.03	139.65	144.24	148.83	153.45
30.0	107.49	108.41	109.33	111.87	114.42	118.37	122.32	127.37	132.42	137.71
32.5	89.98	91.01	92.03	94.49	96.96	100.98	105.01	110.38	115.76	121.67
35.0	74.44	75.55	76.66	78.96	81.26	85.09	88.92	94.28	99.64	105.83
37.5	61.51	62.48	63.45	65.58	67.72	71.22	74.72	79.75	84.78	90.83
40.0	50.67	51.51	52.33	54.17	56.00	59.14	62.29	66.90	71.50	77.29
42.5	41.51	42.27	43.01	44.69	46.35	49.14	51.91	56.03	60.14	65.31
45.0	34.19	34.80	35.41	36.84	38.26	40.69	43.11	46.73	50.35	55.03
47.5	28.32	28.83	29.34	30.53	31.72	33.82	35.91	39.04	42.16	46.26
50.0	23.72	24.14	24.55	25.55	26.55	28.31	30.06	32.70	35.33	38.86
52.5	20.14	20.46	20.78	21.57	22.34	23.81	25.27	27.50	29.72	32.77
55.0	17.25	17.52	17.78	18.43	19.09	20.30	21.50	23.34	25.17	27.73
57.5	14.89	15.11	15.32	15.86	16.38	17.35	18.31	19.84	21.37	23.58
60.0	12.90	13.07	13.23	13.68	14.12	14.93	15.74	16.99	18.24	20.11
62.5	11.20	11.34	11.48	11.85	12.22	12.88	13.54	14.58	15.60	17.19
65.0	9.74	9.85	9.96	10.26	10.55	11.11	11.66	12.53	13.40	14.74
67.5	8.43	8.55	8.66	8.92	9.18	9.64	10.10	10.81	11.53	12.63
70.0	7.34	7.43	7.52	7.75	7.97	8.34	8.70	9.30	9.90	10.83
72.5	6.42	6.50	6.58	6.76	6.93	7.25	7.55	8.04	8.53	9.26
75.0	5.67	5.73	5.79	5.94	6.08	6.33	6.57	6.95	7.33	7.91
77.5	5.05	5.10	5.15	5.26	5.36	5.55	5.73	6.03	6.32	6.83
80.0	4.55	4.61	4.66	4.72	4.79	4.92	5.05	5.29	5.54	5.80
82.5	4.16	4.18	4.19	4.24	4.28	4.37	4.45	4.59	4.73	4.91
85.0	3.84	3.84	3.83	3.85	3.87	3.91	3.94	4.02	4.09	4.17
87.5	3.52	3.52	3.51	3.51	3.51	3.51	3.51	3.54	3.57	3.57
90.0	3.24	3.23	3.22	3.21	3.18	3.15	3.12	3.11	3.09	3.03
100.0	2.24	2.22	2.19	2.14	2.08	2.01	1.94	1.85	1.76	1.66
110.0	1.29	1.28	1.27	1.26	1.25	1.23	1.21	1.17	1.12	1.05
120.0	0.85	0.84	0.83	0.82	0.81	0.78	0.75	0.72	0.69	0.70
130.0	0.55	0.55	0.55	0.54	0.53	0.53	0.53	0.55	0.56	0.58
140.0	0.50	0.50	0.50	0.50	0.49	0.50	0.50	0.51	0.52	0.56
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	215.81	215.81	215.81	215.81	215.81	215.81	215.81	215.81	215.81
2.5	215.89	215.76	215.63	215.53	215.42	215.25	215.07	215.06	215.05
5.0	215.63	215.36	215.08	214.84	214.59	214.43	214.27	214.26	214.26
7.5	215.28	214.72	214.14	213.71	213.26	212.93	212.59	212.53	212.47

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

CANDELA TABULATION - (Cont.)

10.0	214.20	213.54	212.88	212.15	211.41	210.80	210.19	210.07	209.95
12.5	211.57	210.83	210.09	209.37	208.64	208.01	207.38	207.15	206.93
15.0	207.87	207.45	207.02	206.10	205.16	204.28	203.39	203.06	202.73
17.5	201.77	201.79	201.81	201.19	200.56	199.72	198.87	198.54	198.21
20.0	193.88	194.61	195.33	195.07	194.81	194.04	193.28	192.91	192.55
22.5	183.90	185.55	187.19	187.50	187.80	187.18	186.56	186.29	186.02
25.0	171.58	174.24	176.89	178.05	179.21	179.10	178.97	178.74	178.50
27.5	158.07	161.81	165.55	167.47	169.37	169.60	169.82	169.64	169.47
30.0	143.00	147.62	152.24	155.06	157.89	158.84	159.78	159.84	159.90
32.5	127.57	132.95	138.33	141.91	145.49	146.95	148.41	148.73	149.04
35.0	112.02	117.91	123.80	128.03	132.25	134.33	136.41	136.92	137.43
37.5	96.88	103.03	109.18	113.92	118.66	121.32	123.98	124.69	125.40
40.0	83.07	89.22	95.35	100.28	105.20	108.26	111.30	112.22	113.12
42.5	70.49	76.30	82.10	87.20	92.28	95.75	99.21	100.34	101.46
45.0	59.71	65.04	70.36	75.37	80.39	84.01	87.63	88.96	90.29
47.5	50.35	55.21	60.06	64.86	69.66	73.35	77.04	78.56	80.08
50.0	42.38	46.74	51.10	55.68	60.24	63.99	67.73	69.33	70.92
52.5	35.80	39.66	43.52	47.85	52.17	55.95	59.73	61.39	63.05
55.0	30.30	33.65	37.01	41.10	45.19	49.06	52.92	54.68	56.43
57.5	25.78	28.72	31.65	35.46	39.26	43.10	46.93	48.77	50.60
60.0	21.96	24.55	27.13	30.67	34.21	37.99	41.76	43.58	45.40
62.5	18.77	21.03	23.29	26.53	29.78	33.44	37.09	38.90	40.70
65.0	16.08	18.05	20.01	22.95	25.88	29.30	32.72	34.40	36.09
67.5	13.74	15.42	17.09	19.70	22.30	25.38	28.45	30.00	31.55
70.0	11.76	13.18	14.60	16.79	18.99	21.62	24.24	25.59	26.93
72.5	10.00	11.16	12.32	14.10	15.87	18.01	20.15	21.29	22.42
75.0	8.48	9.41	10.32	11.66	12.98	14.63	16.26	17.16	18.06
77.5	7.33	7.92	8.50	9.43	10.35	11.51	12.66	13.36	14.05
80.0	6.06	6.48	6.89	7.46	8.02	8.70	9.37	9.79	10.20
82.5	5.09	5.31	5.53	5.76	5.99	6.20	6.41	6.60	6.77
85.0	4.25	4.31	4.38	4.34	4.30	4.16	4.02	4.00	3.98
87.5	3.56	3.50	3.43	3.22	3.01	2.65	2.29	2.14	2.00
90.0	2.98	2.83	2.68	2.40	2.12	1.73	1.35	1.27	1.18
100.0	1.56	1.41	1.26	1.17	1.07	1.16	1.24	1.60	1.96
110.0	0.98	0.92	0.86	0.93	0.98	1.18	1.37	1.64	1.90
120.0	0.71	0.74	0.76	0.85	0.94	1.05	1.15	1.25	1.35
130.0	0.59	0.64	0.69	0.75	0.81	0.89	0.96	0.96	0.97
140.0	0.59	0.63	0.67	0.71	0.74	0.79	0.83	0.87	0.91
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	78.10	N.A.	23.40
0-30	153.44	N.A.	46.00
0-40	219.94	N.A.	65.90
0-60	294.61	N.A.	88.20
0-80	322.96	N.A.	96.70
0-90	327.58	N.A.	98.10
10-90	307.03	N.A.	92.00
20-40	141.85	N.A.	42.50
20-50	187.64	N.A.	56.20
40-70	92.80	N.A.	27.80
60-80	28.34	N.A.	8.50
70-80	10.21	N.A.	3.10
80-90	4.62	N.A.	1.40
90-110	3.89	N.A.	1.20
90-120	4.91	N.A.	1.50
90-130	5.59	N.A.	1.70
90-150	6.28	N.A.	1.90
90-180	6.28	N.A.	1.90
110-180	2.39	N.A.	0.70
0-180	333.86	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.55
10-20	57.55
20-30	75.34
30-40	66.50
40-50	45.80
50-60	28.87
60-70	18.14
70-80	10.21
80-90	4.62
90-100	2.37
100-110	1.52
110-120	1.01
120-130	0.68
130-140	0.50
140-150	0.19
150-160	0.00
160-170	0.00
170-180	0.00

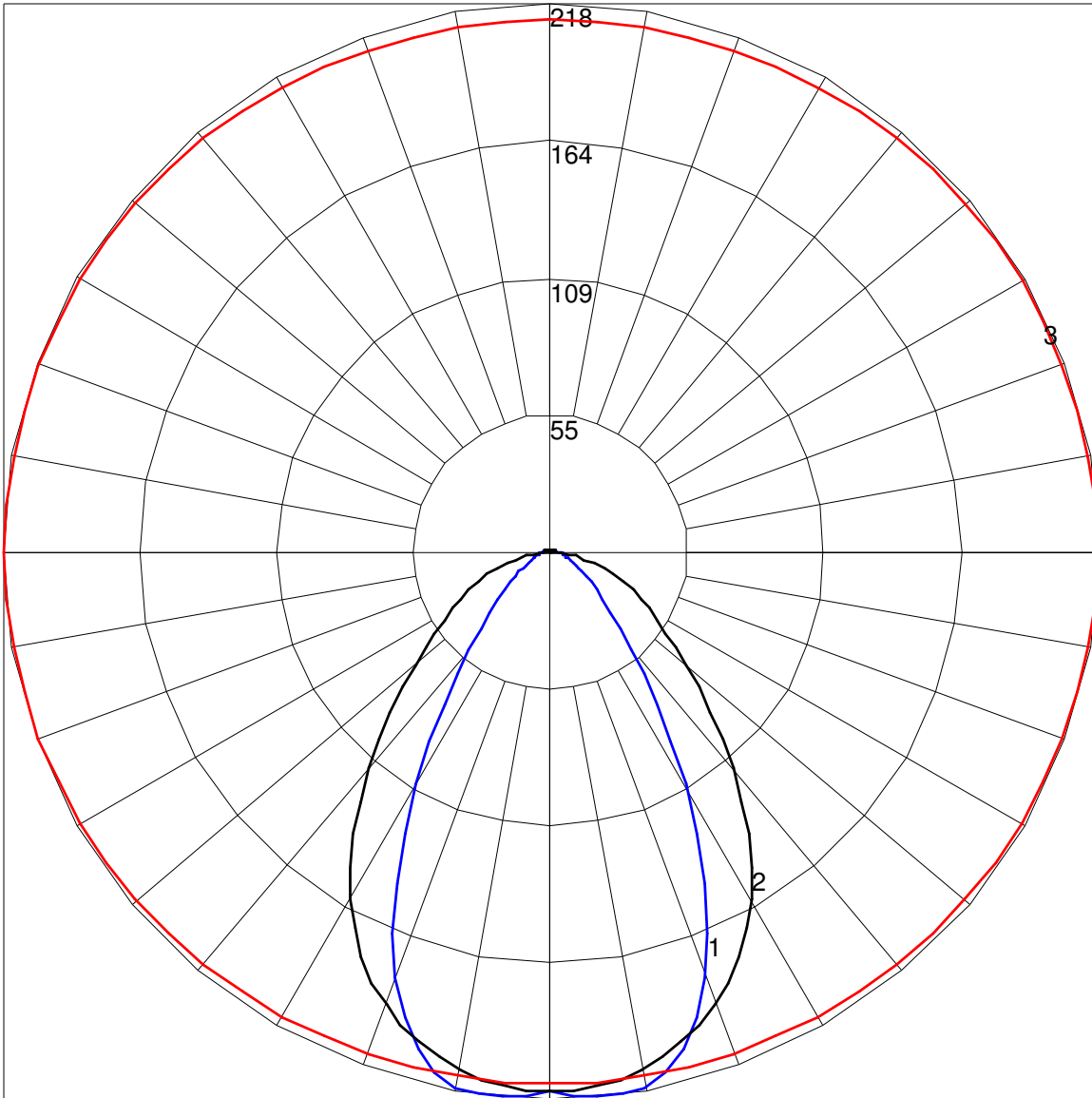
IES INDOOR REPORT
PHOTOMETRIC FILENAME : C5R-60115-00-120E5-35-NA.IES

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	110	107	103	100	108	104	101	98	100	97	95	96	94	92	92	90	89	87
2	103	96	91	86	100	94	89	85	90	86	83	87	84	80	84	81	78	76
3	96	87	80	75	93	85	79	74	82	77	73	79	75	71	77	73	70	68
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	66	63	61
5	83	72	65	59	81	71	64	59	69	63	58	67	62	57	65	60	57	55
6	78	67	59	54	76	66	58	53	64	57	53	62	56	52	60	55	52	50
7	73	61	54	49	71	61	54	48	59	53	48	58	52	48	56	51	47	45
8	69	57	50	45	67	56	49	44	55	49	44	54	48	44	52	47	43	42
9	65	53	46	41	63	52	46	41	51	45	41	50	44	40	49	44	40	38
10	61	50	43	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36

POLAR GRAPH



Maximum Candela = 218.44 Located At Horizontal Angle = 0, Vertical Angle = 7.5

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 (7.5) (Through Max. Cd.)