

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C5R-LL-00-120E8-35-NA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3162
 [ECN] 3167
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 7/5/2017 9:12:13 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C5R-LL-00-120E8-35-NA
 [LUMINAIRE] Light gray aluminum housing with lightly frosted lens
 [LAMP] Sixteen (16) white LEDs (3500K)
 [ELECTRICALS] 120.04 VAC, 0.07 A, 0.9932 PF, 16% ATHD

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	706
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	7.99
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	23	18	77
55	25	34	219
65	28	40	363
75	34	58	655
85	45	98	960

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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	0.77	0.76	0.75	0.77	0.77	0.80	0.82	0.87	0.00	0.00
50.0	0.83	0.82	0.80	0.82	0.85	0.86	0.87	0.89	0.91	1.00
60.0	1.00	1.01	1.01	1.02	1.03	1.05	1.07	1.05	1.03	1.04
70.0	1.23	1.25	1.27	1.32	1.36	1.41	1.45	1.48	1.52	1.50
80.0	1.46	1.51	1.54	1.61	1.68	1.80	1.90	2.02	2.13	2.19
90.0	2.11	2.18	2.23	2.35	2.46	2.69	2.91	3.21	3.51	3.86
92.5	2.45	2.54	2.62	2.78	2.94	3.25	3.55	3.92	4.28	4.84
95.0	3.06	3.19	3.32	3.53	3.74	4.12	4.50	5.03	5.56	6.49
97.5	4.03	4.21	4.40	4.71	5.02	5.56	6.10	6.98	7.85	9.37
100.0	5.64	5.94	6.24	6.74	7.23	8.12	9.01	10.58	12.15	14.47
102.5	8.67	9.20	9.73	10.57	11.40	13.12	14.84	17.60	20.35	23.54
105.0	14.99	16.05	17.11	18.64	20.16	23.16	26.15	30.06	33.96	37.00
107.5	27.50	29.46	31.41	33.83	36.24	39.73	43.22	46.96	50.68	52.67
110.0	49.23	50.90	52.57	55.05	57.53	59.89	62.25	64.58	66.90	67.09
112.5	73.46	73.94	74.42	75.80	77.18	77.76	78.33	78.95	79.57	79.15
115.0	91.95	91.73	91.51	91.81	92.10	91.55	90.99	90.84	90.68	90.46
117.5	104.14	103.99	103.83	103.62	103.41	102.65	101.88	101.66	101.43	101.44
120.0	114.38	114.22	114.05	113.93	113.80	113.14	112.48	112.43	112.37	112.36
122.5	124.12	124.27	124.41	124.24	124.07	123.45	122.82	122.78	122.73	122.70
125.0	134.43	134.52	134.60	134.52	134.43	133.71	132.99	132.92	132.84	132.54
127.5	143.77	144.12	144.46	144.51	144.54	143.86	143.17	142.85	142.52	142.08
130.0	152.95	153.74	154.52	154.34	154.17	153.74	153.31	152.48	151.65	151.38
132.5	163.65	163.82	163.99	163.52	163.06	162.68	162.31	161.15	159.98	160.10
135.0	171.56	171.79	172.02	171.52	171.01	170.94	170.86	169.75	168.64	168.70
137.5	178.67	179.11	179.54	179.31	179.09	179.17	179.25	178.34	177.42	177.21
140.0	186.15	186.41	186.66	186.68	186.70	186.50	186.31	185.67	185.03	185.03
142.5	193.80	193.71	193.61	193.80	193.98	193.40	192.81	192.64	192.46	192.54
145.0	200.82	200.63	200.44	200.69	200.95	200.34	199.73	199.96	200.18	200.10
147.5	207.04	206.87	206.69	206.87	207.05	206.96	206.86	207.06	207.25	206.91
150.0	213.68	213.36	213.04	213.31	213.57	213.46	213.34	213.21	213.06	212.73
152.5	219.72	219.37	219.02	219.06	219.09	218.91	218.73	218.31	217.89	217.73
155.0	224.48	224.24	223.99	223.89	223.78	223.52	223.26	222.92	222.57	222.49
157.5	229.13	228.80	228.46	228.08	227.68	227.28	226.88	226.58	226.29	226.67
160.0	232.26	232.02	231.78	231.26	230.74	230.44	230.13	230.23	230.33	230.84
162.5	235.32	234.96	234.60	234.21	233.83	233.71	233.59	233.89	234.18	234.51
165.0	238.73	238.20	237.65	237.49	237.31	237.17	237.03	237.08	237.13	237.26
167.5	240.75	240.51	240.27	240.26	240.26	240.17	240.08	240.11	240.13	240.09
170.0	243.34	243.01	242.68	242.66	242.63	242.73	242.81	242.82	242.83	242.82
172.5	244.63	244.60	244.57	244.68	244.78	244.91	245.03	245.16	245.28	245.37
175.0	246.39	246.37	246.34	246.43	246.50	246.61	246.71	246.82	246.93	247.02
177.5	248.31	247.87	247.43	247.49	247.54	247.57	247.58	247.68	247.77	247.88
180.0	247.00	247.00	247.00	247.00	247.00	247.00	247.00	247.00	247.00	247.00

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	1.28	1.36	1.44	1.47	1.50
60.0	1.04	1.06	1.07	1.20	1.32	1.63	1.93	2.16	2.38
70.0	1.47	1.40	1.32	1.38	1.44	1.86	2.28	2.76	3.24
80.0	2.24	2.22	2.19	2.13	2.07	2.29	2.50	3.82	5.14
90.0	4.22	4.64	5.06	5.33	5.59	5.09	4.58	4.40	4.20
92.5	5.39	6.15	6.91	7.48	8.04	7.60	7.15	6.40	5.65
95.0	7.41	8.62	9.84	10.90	11.96	11.74	11.51	11.23	10.96
97.5	10.88	12.72	14.56	16.07	17.58	17.49	17.39	17.51	17.63
100.0	16.79	19.27	21.76	23.20	24.65	24.34	24.02	24.40	24.78
102.5	26.72	28.90	31.07	32.04	33.01	32.28	31.55	31.95	32.34
105.0	40.02	40.87	41.72	41.32	40.91	39.89	38.86	39.39	39.92
107.5	54.65	53.68	52.71	50.97	49.23	48.73	48.21	48.27	48.32
110.0	67.27	65.74	64.19	61.40	58.60	58.05	57.50	57.87	58.24
112.5	78.71	77.24	75.76	72.61	69.45	67.66	65.86	66.44	67.02
115.0	90.23	88.78	87.33	84.81	82.29	80.27	78.24	78.14	78.04
117.5	101.44	100.27	99.10	97.11	95.11	93.40	91.69	91.71	91.72
120.0	112.34	111.40	110.46	108.86	107.26	105.55	103.84	104.01	104.18
122.5	122.68	122.13	121.57	120.32	119.07	117.34	115.61	115.91	116.20
125.0	132.24	132.41	132.57	131.52	130.46	128.64	126.81	127.40	127.99
127.5	141.63	141.91	142.18	141.89	141.59	140.10	138.61	139.03	139.44
130.0	151.10	150.58	150.06	150.87	151.68	150.91	150.13	150.23	150.32
132.5	160.22	158.91	157.59	158.53	159.47	159.88	160.28	160.72	161.15
135.0	168.74	168.02	167.29	166.66	166.02	167.30	168.58	169.31	170.04
137.5	177.00	176.78	176.55	175.32	174.09	174.90	175.71	176.61	177.51
140.0	185.02	184.65	184.29	183.81	183.32	183.96	184.59	185.43	186.26
142.5	192.60	192.03	191.45	191.56	191.66	192.37	193.07	193.75	194.43
145.0	200.02	199.19	198.35	198.76	199.15	199.76	200.37	200.77	201.18
147.5	206.56	205.94	205.31	205.96	206.61	207.11	207.61	208.01	208.40
150.0	212.39	212.16	211.93	212.58	213.24	213.69	214.13	214.66	215.19
152.5	217.57	217.76	217.94	218.62	219.28	219.72	220.16	220.59	221.01
155.0	222.40	222.90	223.38	223.91	224.43	224.97	225.51	225.91	226.31
157.5	227.04	227.62	228.19	228.60	229.00	229.41	229.81	230.22	230.63
160.0	231.34	231.73	232.13	232.59	233.04	233.80	234.55	234.98	235.41
162.5	234.83	235.07	235.31	235.77	236.23	237.11	237.99	238.57	239.15
165.0	237.39	237.53	237.66	238.22	238.76	239.52	240.27	240.76	241.26
167.5	240.04	240.15	240.27	240.70	241.13	241.79	242.45	242.77	243.09
170.0	242.81	242.79	242.77	243.09	243.41	243.61	243.81	243.90	243.98
172.5	245.46	245.45	245.44	245.57	245.69	245.68	245.67	245.77	245.87
175.0	247.11	247.12	247.13	247.17	247.20	247.15	247.08	247.18	247.28
177.5	247.98	247.87	247.75	247.79	247.82	247.74	247.65	247.70	247.74
180.0	247.00	247.00	247.00	247.00	247.00	247.00	247.00	247.00	247.00

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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	0.10	N.A.	0.00
0-60	1.46	N.A.	0.20
0-80	4.87	N.A.	0.70
0-90	8.10	N.A.	1.10
10-90	8.10	N.A.	1.10
20-40	0.10	N.A.	0.00
20-50	0.54	N.A.	0.10
40-70	2.77	N.A.	0.40
60-80	3.40	N.A.	0.50
70-80	1.99	N.A.	0.30
80-90	3.23	N.A.	0.50
90-110	44.70	N.A.	6.30
90-120	130.46	N.A.	18.50
90-130	248.32	N.A.	35.20
90-150	504.09	N.A.	71.40
90-180	697.96	N.A.	98.90
110-180	653.26	N.A.	92.50
0-180	706.05	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	0.10
40-50	0.44
50-60	0.92
60-70	1.41
70-80	1.99
80-90	3.23
90-100	8.77
100-110	35.93
110-120	85.76
120-130	117.86
130-140	130.62
140-150	125.15
150-160	103.14
160-170	67.28
170-180	23.44

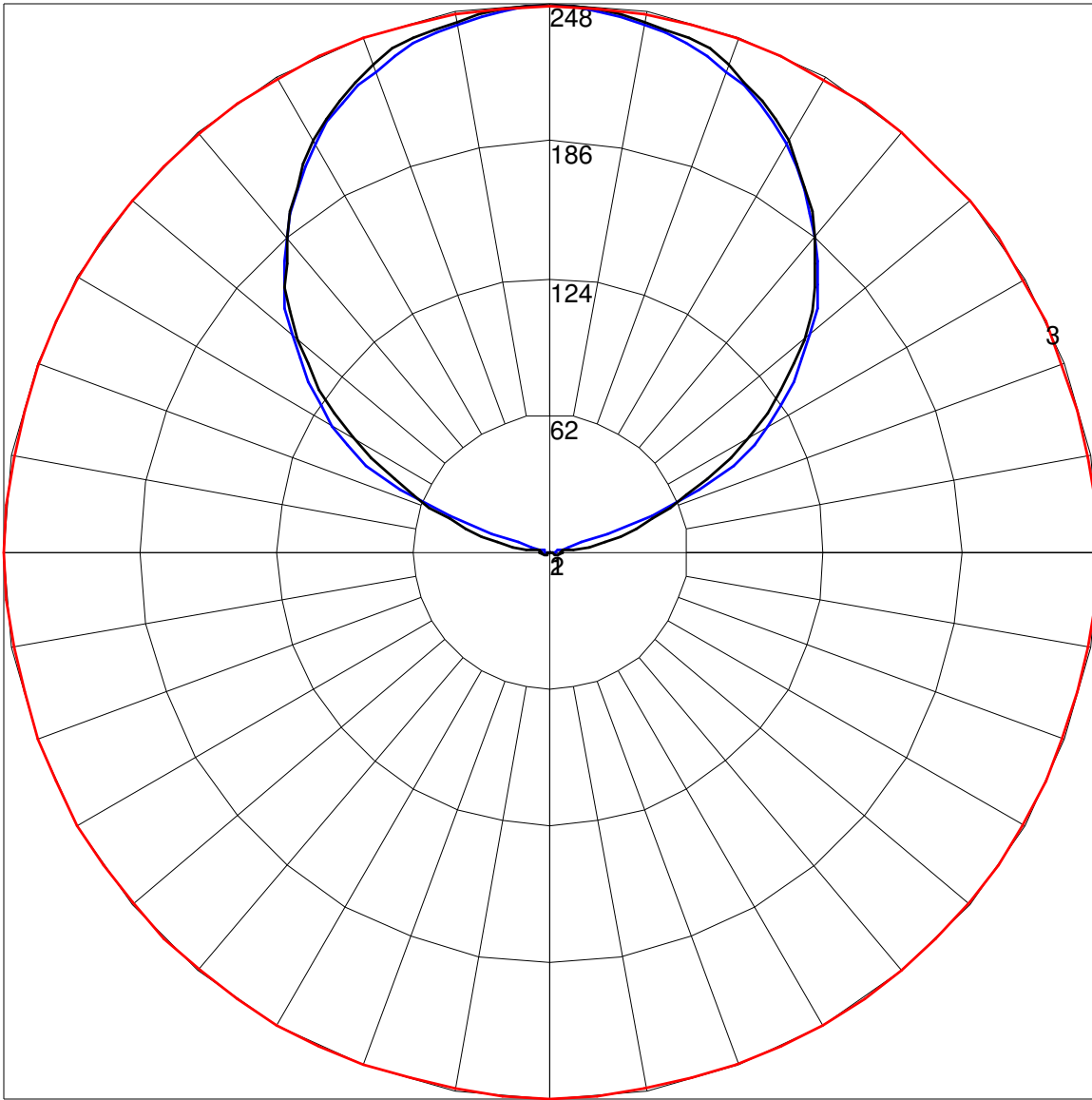
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	49	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	16	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	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	3	3	2	0

POLAR GRAPH



Maximum Candela = 248.31 Located At Horizontal Angle = 0, Vertical Angle = 177.5
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 (177.5) (Through Max. Cd.)