

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3162
 [ECN] 3338
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 7/5/2017 Revised 12/12/2017
 [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	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
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	5010	5975	17535
55	3605	4369	14451
65	2345	2871	10074
75	375	1166	6236
85	78	209	2254

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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	247.97	247.97	247.97	247.97	247.97	247.97	247.97	247.97	247.97	247.97
2.5	248.31	247.87	247.43	247.49	247.54	247.57	247.58	247.68	247.77	247.88
5.0	246.39	246.37	246.34	246.43	246.50	246.61	246.71	246.82	246.93	247.02
7.5	244.63	244.60	244.57	244.68	244.78	244.91	245.03	245.16	245.28	245.37
10.0	243.34	243.01	242.68	242.66	242.63	242.73	242.81	242.82	242.83	242.82
12.5	240.75	240.51	240.27	240.26	240.26	240.17	240.08	240.11	240.13	240.09
15.0	238.73	238.20	237.65	237.49	237.31	237.17	237.03	237.08	237.13	237.26
17.5	235.32	234.96	234.60	234.21	233.83	233.71	233.59	233.89	234.18	234.51
20.0	232.26	232.02	231.78	231.26	230.74	230.44	230.13	230.23	230.33	230.84
22.5	229.13	228.80	228.46	228.08	227.68	227.28	226.88	226.58	226.29	226.67
25.0	224.48	224.24	223.99	223.89	223.78	223.52	223.26	222.92	222.57	222.49
27.5	219.72	219.37	219.02	219.06	219.09	218.91	218.73	218.31	217.89	217.73
30.0	213.68	213.36	213.04	213.31	213.57	213.46	213.34	213.21	213.06	212.73
32.5	207.04	206.87	206.69	206.87	207.05	206.96	206.86	207.06	207.25	206.91
35.0	200.82	200.63	200.44	200.69	200.95	200.34	199.73	199.96	200.18	200.10
37.5	193.80	193.71	193.61	193.80	193.98	193.40	192.81	192.64	192.46	192.54
40.0	186.15	186.41	186.66	186.68	186.70	186.50	186.31	185.67	185.03	185.03
42.5	178.67	179.11	179.54	179.31	179.09	179.17	179.25	178.34	177.42	177.21
45.0	171.56	171.79	172.02	171.52	171.01	170.94	170.86	169.75	168.64	168.70
47.5	163.65	163.82	163.99	163.52	163.06	162.68	162.31	161.15	159.98	160.10
50.0	152.95	153.74	154.52	154.34	154.17	153.74	153.31	152.48	151.65	151.38
52.5	143.77	144.12	144.46	144.51	144.54	143.86	143.17	142.85	142.52	142.08
55.0	134.43	134.52	134.60	134.52	134.43	133.71	132.99	132.92	132.84	132.54
57.5	124.12	124.27	124.41	124.24	124.07	123.45	122.82	122.78	122.73	122.70
60.0	114.38	114.22	114.05	113.93	113.80	113.14	112.48	112.43	112.37	112.36
62.5	104.14	103.99	103.83	103.62	103.41	102.65	101.88	101.66	101.43	101.44
65.0	91.95	91.73	91.51	91.81	92.10	91.55	90.99	90.84	90.68	90.46
67.5	73.46	73.94	74.42	75.80	77.18	77.76	78.33	78.95	79.57	79.15
70.0	49.23	50.90	52.57	55.05	57.53	59.89	62.25	64.58	66.90	67.09
72.5	27.50	29.46	31.41	33.83	36.24	39.73	43.22	46.96	50.68	52.67
75.0	14.99	16.05	17.11	18.64	20.16	23.16	26.15	30.06	33.96	37.00
77.5	8.67	9.20	9.73	10.57	11.40	13.12	14.84	17.60	20.35	23.54
80.0	5.64	5.94	6.24	6.74	7.23	8.12	9.01	10.58	12.15	14.47
82.5	4.03	4.21	4.40	4.71	5.02	5.56	6.10	6.98	7.85	9.37
85.0	3.06	3.19	3.32	3.53	3.74	4.12	4.50	5.03	5.56	6.49
87.5	2.45	2.54	2.62	2.78	2.94	3.25	3.55	3.92	4.28	4.84
90.0	2.11	2.18	2.23	2.35	2.46	2.69	2.91	3.21	3.51	3.86
100.0	1.46	1.51	1.54	1.61	1.68	1.80	1.90	2.02	2.13	2.19
110.0	1.23	1.25	1.27	1.32	1.36	1.41	1.45	1.48	1.52	1.50
120.0	1.00	1.01	1.01	1.02	1.03	1.05	1.07	1.05	1.03	1.04
130.0	0.83	0.82	0.80	0.82	0.85	0.86	0.87	0.89	0.91	1.00
140.0	0.77	0.76	0.75	0.77	0.77	0.80	0.82	0.87	0.00	0.00
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	247.97	247.97	247.97	247.97	247.97	247.97	247.97	247.97	247.97
2.5	247.98	247.87	247.75	247.79	247.82	247.74	247.65	247.70	247.74
5.0	247.11	247.12	247.13	247.17	247.20	247.15	247.08	247.18	247.28
7.5	245.46	245.45	245.44	245.57	245.69	245.68	245.67	245.77	245.87

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10.0	242.81	242.79	242.77	243.09	243.41	243.61	243.81	243.90	243.98
12.5	240.04	240.15	240.27	240.70	241.13	241.79	242.45	242.77	243.09
15.0	237.39	237.53	237.66	238.22	238.76	239.52	240.27	240.76	241.26
17.5	234.83	235.07	235.31	235.77	236.23	237.11	237.99	238.57	239.15
20.0	231.34	231.73	232.13	232.59	233.04	233.80	234.55	234.98	235.41
22.5	227.04	227.62	228.19	228.60	229.00	229.41	229.81	230.22	230.63
25.0	222.40	222.90	223.38	223.91	224.43	224.97	225.51	225.91	226.31
27.5	217.57	217.76	217.94	218.62	219.28	219.72	220.16	220.59	221.01
30.0	212.39	212.16	211.93	212.58	213.24	213.69	214.13	214.66	215.19
32.5	206.56	205.94	205.31	205.96	206.61	207.11	207.61	208.01	208.40
35.0	200.02	199.19	198.35	198.76	199.15	199.76	200.37	200.77	201.18
37.5	192.60	192.03	191.45	191.56	191.66	192.37	193.07	193.75	194.43
40.0	185.02	184.65	184.29	183.81	183.32	183.96	184.59	185.43	186.26
42.5	177.00	176.78	176.55	175.32	174.09	174.90	175.71	176.61	177.51
45.0	168.74	168.02	167.29	166.66	166.02	167.30	168.58	169.31	170.04
47.5	160.22	158.91	157.59	158.53	159.47	159.88	160.28	160.72	161.15
50.0	151.10	150.58	150.06	150.87	151.68	150.91	150.13	150.23	150.32
52.5	141.63	141.91	142.18	141.89	141.59	140.10	138.61	139.03	139.44
55.0	132.24	132.41	132.57	131.52	130.46	128.64	126.81	127.40	127.99
57.5	122.68	122.13	121.57	120.32	119.07	117.34	115.61	115.91	116.20
60.0	112.34	111.40	110.46	108.86	107.26	105.55	103.84	104.01	104.18
62.5	101.44	100.27	99.10	97.11	95.11	93.40	91.69	91.71	91.72
65.0	90.23	88.78	87.33	84.81	82.29	80.27	78.24	78.14	78.04
67.5	78.71	77.24	75.76	72.61	69.45	67.66	65.86	66.44	67.02
70.0	67.27	65.74	64.19	61.40	58.60	58.05	57.50	57.87	58.24
72.5	54.65	53.68	52.71	50.97	49.23	48.73	48.21	48.27	48.32
75.0	40.02	40.87	41.72	41.32	40.91	39.89	38.86	39.39	39.92
77.5	26.72	28.90	31.07	32.04	33.01	32.28	31.55	31.95	32.34
80.0	16.79	19.27	21.76	23.20	24.65	24.34	24.02	24.40	24.78
82.5	10.88	12.72	14.56	16.07	17.58	17.49	17.39	17.51	17.63
85.0	7.41	8.62	9.84	10.90	11.96	11.74	11.51	11.23	10.96
87.5	5.39	6.15	6.91	7.48	8.04	7.60	7.15	6.40	5.65
90.0	4.22	4.64	5.06	5.33	5.59	5.09	4.58	4.40	4.20
100.0	2.24	2.22	2.19	2.13	2.07	2.29	2.50	3.82	5.14
110.0	1.47	1.40	1.32	1.38	1.44	1.86	2.28	2.76	3.24
120.0	1.04	1.06	1.07	1.20	1.32	1.63	1.93	2.16	2.38
130.0	1.08	1.13	1.17	1.23	1.28	1.36	1.44	1.47	1.50
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	90.73	N.A.	12.80
0-30	193.87	N.A.	27.40
0-40	319.01	N.A.	45.20
0-60	567.50	N.A.	80.40
0-80	689.19	N.A.	97.60
0-90	697.96	N.A.	98.80
10-90	674.52	N.A.	95.50
20-40	228.29	N.A.	32.30
20-50	358.91	N.A.	50.80
40-70	334.25	N.A.	47.30
60-80	121.69	N.A.	17.20
70-80	35.93	N.A.	5.10
80-90	8.77	N.A.	1.20
90-110	5.22	N.A.	0.70
90-120	6.63	N.A.	0.90
90-130	7.67	N.A.	1.10
90-150	8.31	N.A.	1.20
90-180	8.31	N.A.	1.20
110-180	3.09	N.A.	0.40
0-180	706.27	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	23.44
10-20	67.28
20-30	103.14
30-40	125.15
40-50	130.62
50-60	117.86
60-70	85.76
70-80	35.93
80-90	8.77
90-100	3.23
100-110	1.99
110-120	1.41
120-130	1.04
130-140	0.54
140-150	0.10
150-160	0.00
160-170	0.00
170-180	0.00

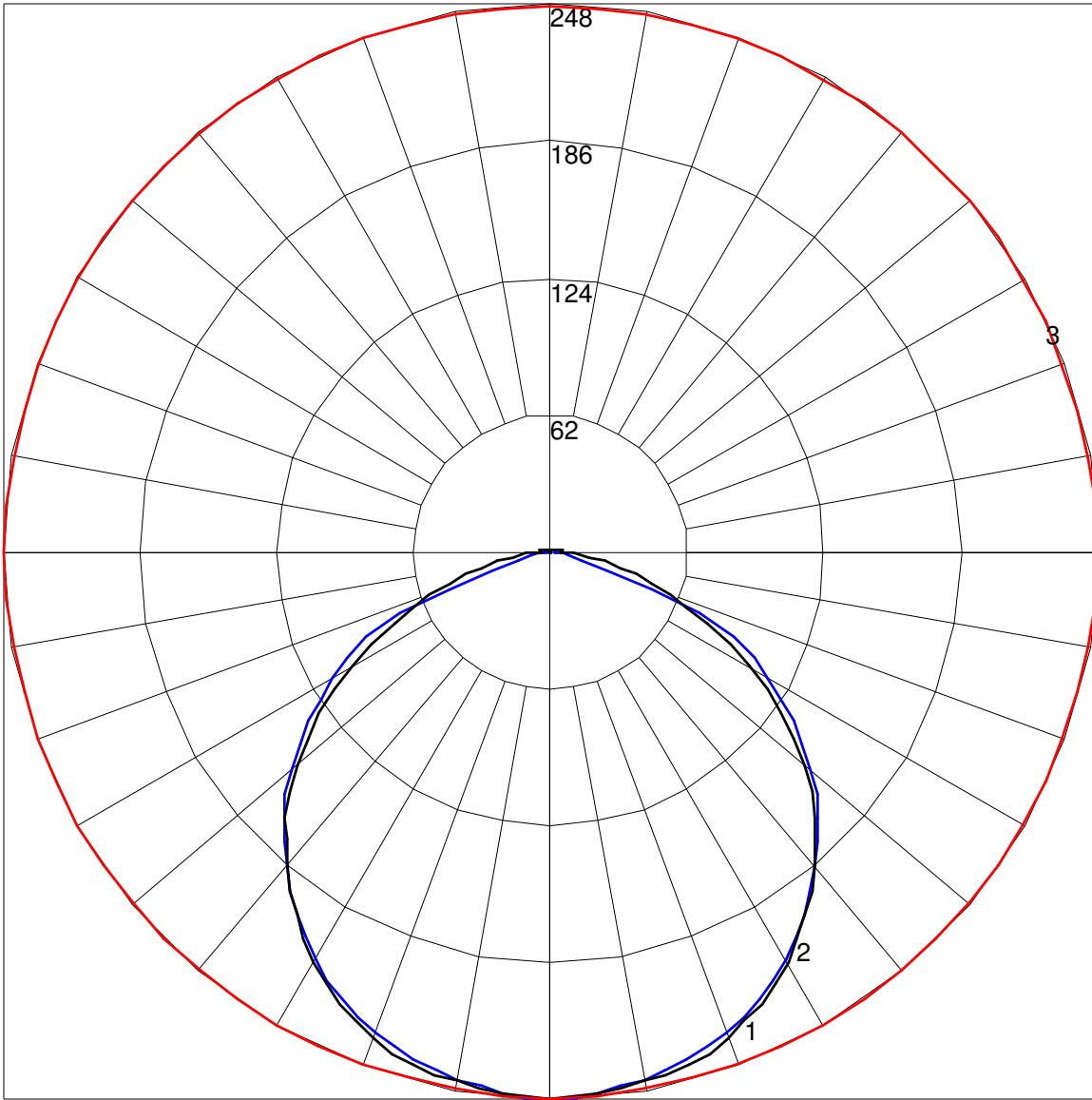
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	10	0	
0	119	119	119	119	119	116	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	109	104	100	97		106	102	98	95		98	95	92	94	91	89	90	88	86	84
2	99	91	85	79		97	89	83	78		86	80	76	82	78	74	79	75	72	70
3	91	80	72	66		88	79	71	65		75	69	64	73	67	63	70	65	61	59
4	83	71	62	56		81	70	62	55		67	60	54	65	59	54	62	57	53	51
5	76	63	55	48		74	62	54	48		60	53	47	58	52	46	56	50	46	44
6	70	57	48	42		68	56	48	42		54	47	41	52	46	41	51	45	40	38
7	65	52	43	37		63	51	43	37		49	42	36	48	41	36	46	40	36	34
8	61	47	39	33		59	46	38	33		45	38	32	44	37	32	42	36	32	30
9	57	43	35	30		55	43	35	29		41	34	29	40	34	29	39	33	29	27
10	53	40	32	27		52	39	32	27		38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 248.31 Located At Horizontal Angle = 0, Vertical Angle = 2.5
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 (2.5) (Through Max. Cd.)