

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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3167  
 [ECN] 3338  
 [TESTLAB] Tempo LLC  
 [ISSUE DATE] 7/7/2017 Revised 12/12/2017  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C5R-LL-00-120E5-35-NA  
 [LUMINAIRE] Light gray aluminum housing with lightly frosted lens  
 [LAMP] Sixteen (16) white LEDs (3500K)  
 [ELECTRICALS] 120.08 VAC, 0.04 A, 0.9928 PF, 19% ATHD

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	476
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	4.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
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	3381	4029	11807
55	2428	2947	9716
65	1589	1933	6817
75	293	819	4196
85	57	152	1625

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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>
<b>0.0</b>	166.42	166.42	166.42	166.42	166.42	166.42	166.42	166.42	166.42	166.42
<b>2.5</b>	166.78	166.44	166.10	166.20	166.29	166.30	166.32	166.29	166.26	166.34
<b>5.0</b>	165.96	165.71	165.45	165.48	165.50	165.55	165.59	165.72	165.85	165.85
<b>7.5</b>	164.37	164.23	164.09	164.08	164.06	164.16	164.25	164.39	164.51	164.62
<b>10.0</b>	162.91	162.66	162.40	162.44	162.48	162.57	162.65	162.68	162.70	162.89
<b>12.5</b>	161.77	161.35	160.91	160.84	160.77	160.72	160.67	160.79	160.90	161.04
<b>15.0</b>	159.95	159.70	159.44	159.40	159.36	159.16	158.96	158.86	158.76	159.01
<b>17.5</b>	158.48	158.13	157.77	157.61	157.43	157.19	156.93	156.87	156.81	157.01
<b>20.0</b>	156.11	155.74	155.37	155.18	154.98	154.84	154.70	154.58	154.44	154.64
<b>22.5</b>	153.51	153.03	152.53	152.37	152.20	152.19	152.18	152.08	151.96	152.13
<b>25.0</b>	150.78	150.25	149.71	149.57	149.42	149.40	149.37	149.35	149.32	149.22
<b>27.5</b>	147.18	146.87	146.55	146.57	146.59	146.52	146.45	146.28	146.10	146.03
<b>30.0</b>	143.86	143.61	143.36	143.36	143.34	143.11	142.89	142.80	142.72	142.39
<b>32.5</b>	139.98	139.82	139.65	139.71	139.75	139.40	139.04	138.73	138.41	138.21
<b>35.0</b>	135.81	135.56	135.30	135.30	135.30	135.13	134.95	134.65	134.35	134.03
<b>37.5</b>	130.91	130.72	130.54	130.53	130.52	130.36	130.19	130.12	130.05	129.62
<b>40.0</b>	125.65	125.70	125.74	125.62	125.50	125.43	125.35	125.07	124.79	124.57
<b>42.5</b>	120.83	120.96	121.10	120.79	120.48	120.41	120.35	119.92	119.50	119.26
<b>45.0</b>	115.77	115.78	115.79	115.61	115.43	115.25	115.06	114.53	114.00	113.76
<b>47.5</b>	110.16	109.94	109.72	109.76	109.78	109.72	109.66	109.14	108.62	108.08
<b>50.0</b>	103.51	103.50	103.49	103.60	103.70	103.69	103.67	103.24	102.80	102.10
<b>52.5</b>	96.89	97.05	97.21	97.09	96.96	96.92	96.87	96.55	96.23	95.75
<b>55.0</b>	90.55	90.62	90.69	90.50	90.30	90.12	89.95	89.79	89.62	89.40
<b>57.5</b>	83.36	83.52	83.67	83.52	83.36	83.23	83.09	82.86	82.62	82.74
<b>60.0</b>	76.70	76.75	76.80	76.56	76.31	76.12	75.92	75.84	75.75	76.05
<b>62.5</b>	69.88	69.99	70.10	69.93	69.76	69.24	68.72	68.53	68.33	68.54
<b>65.0</b>	62.31	62.26	62.21	62.34	62.46	62.04	61.60	61.27	60.94	60.90
<b>67.5</b>	51.45	51.51	51.56	52.26	52.95	53.22	53.47	53.68	53.88	53.57
<b>70.0</b>	36.47	36.96	37.44	38.85	40.26	41.69	43.11	44.42	45.73	45.74
<b>72.5</b>	21.27	22.13	23.00	24.44	25.89	28.12	30.34	33.01	35.67	36.51
<b>75.0</b>	11.69	12.44	13.19	14.11	15.03	16.85	18.68	21.32	23.96	25.98
<b>77.5</b>	6.79	7.32	7.85	8.42	8.99	10.09	11.18	12.87	14.55	16.46
<b>80.0</b>	4.26	4.56	4.85	5.25	5.65	6.33	7.02	7.95	8.88	10.25
<b>82.5</b>	2.96	3.09	3.21	3.47	3.72	4.19	4.66	5.26	5.85	6.79
<b>85.0</b>	2.23	2.29	2.34	2.50	2.65	3.00	3.33	3.68	4.03	4.72
<b>87.5</b>	1.77	1.81	1.85	1.95	2.05	2.31	2.58	2.79	2.99	3.45
<b>90.0</b>	1.48	1.52	1.56	1.64	1.72	1.92	2.12	2.27	2.41	2.68
<b>100.0</b>	1.05	1.07	1.09	1.14	1.18	1.29	1.41	1.45	1.49	1.52
<b>110.0</b>	0.89	0.90	0.91	0.93	0.95	1.03	1.12	1.09	1.06	1.04
<b>120.0</b>	0.71	0.72	0.73	0.72	0.72	0.78	0.83	0.78	0.73	0.73
<b>130.0</b>	0.58	0.58	0.58	0.64	0.69	0.71	0.72	0.68	0.64	0.70
<b>140.0</b>	0.54	0.55	0.54	0.60	0.65	0.67	0.69	0.66	0.63	0.00
<b>150.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>
<b>0.0</b>	166.42	166.42	166.42	166.42	166.42	166.42	166.42	166.42	166.42
<b>2.5</b>	166.42	166.42	166.42	166.29	166.16	166.17	166.17	166.33	166.47
<b>5.0</b>	165.85	165.81	165.78	165.83	165.87	165.79	165.72	165.62	165.53
<b>7.5</b>	164.72	164.78	164.84	164.84	164.84	164.75	164.65	164.60	164.54

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10.0	163.08	163.33	163.57	163.65	163.72	163.65	163.58	163.62	163.65
12.5	161.17	161.54	161.90	162.33	162.76	162.61	162.44	162.27	162.10
15.0	159.26	159.79	160.32	160.69	161.05	161.13	161.20	161.22	161.24
17.5	157.20	157.64	158.08	158.78	159.48	159.61	159.73	159.71	159.68
20.0	154.84	155.26	155.68	156.23	156.78	157.12	157.46	157.46	157.45
22.5	152.29	152.59	152.89	153.35	153.81	154.22	154.62	154.67	154.73
25.0	149.12	149.40	149.67	150.20	150.73	151.16	151.57	151.41	151.25
27.5	145.96	146.16	146.36	146.61	146.85	147.30	147.74	147.99	148.24
30.0	142.06	142.18	142.29	142.61	142.94	143.23	143.52	143.77	144.02
32.5	138.00	138.04	138.08	138.11	138.14	138.51	138.88	139.34	139.79
35.0	133.71	133.62	133.52	133.57	133.62	133.99	134.35	135.03	135.70
37.5	129.18	128.99	128.80	128.78	128.77	129.10	129.43	130.16	130.89
40.0	124.35	124.14	123.92	123.44	122.95	123.02	123.09	123.85	124.61
42.5	119.02	118.55	118.06	117.46	116.85	116.97	117.10	117.76	118.42
45.0	113.53	112.65	111.77	111.45	111.13	111.98	112.82	113.66	114.50
47.5	107.54	106.46	105.36	106.19	107.02	107.49	107.96	108.46	108.96
50.0	101.40	100.71	100.02	100.95	101.87	101.38	100.88	101.28	101.68
52.5	95.27	95.31	95.33	95.06	94.79	93.97	93.15	93.64	94.14
55.0	89.18	89.07	88.96	88.19	87.41	86.51	85.61	85.83	86.05
57.5	82.86	82.31	81.75	80.76	79.77	78.64	77.50	77.89	78.27
60.0	76.35	75.19	74.02	73.10	72.17	70.85	69.53	69.91	70.28
62.5	68.75	67.46	66.17	65.18	64.20	62.73	61.26	61.56	61.86
65.0	60.86	59.69	58.51	57.21	55.90	54.20	52.48	52.65	52.81
67.5	53.26	52.01	50.75	49.26	47.76	46.06	44.35	44.63	44.92
70.0	45.74	44.39	43.03	41.50	39.97	39.13	38.28	38.56	38.84
72.5	37.33	36.49	35.64	34.46	33.27	33.02	32.76	32.85	32.93
75.0	27.99	28.17	28.35	28.19	28.03	27.54	27.04	26.95	26.86
77.5	18.37	19.87	21.36	21.71	22.06	21.67	21.27	21.52	21.77
80.0	11.63	13.30	14.96	16.07	17.17	16.94	16.71	16.89	17.07
82.5	7.73	8.87	10.02	11.16	12.29	12.20	12.10	12.20	12.29
85.0	5.40	6.11	6.83	7.50	8.17	8.14	8.12	8.01	7.90
87.5	3.90	4.44	4.97	5.21	5.44	5.18	4.91	4.21	3.52
90.0	2.94	3.33	3.72	3.76	3.80	3.44	3.08	2.77	2.46
100.0	1.55	1.59	1.63	1.53	1.44	1.59	1.74	2.63	3.53
110.0	1.01	1.03	1.04	1.03	1.01	1.32	1.63	1.94	2.26
120.0	0.73	0.82	0.90	0.91	0.92	1.10	1.28	1.43	1.57
130.0	0.00	0.00	0.00	0.00	0.00	0.97	1.00	1.02	1.03
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	60.89	N.A.	12.80
0-30	130.04	N.A.	27.30
0-40	214.15	N.A.	45.00
0-60	381.27	N.A.	80.00
0-80	464.38	N.A.	97.50
0-90	470.58	N.A.	98.80
10-90	454.85	N.A.	95.50
20-40	153.25	N.A.	32.20
20-50	241.06	N.A.	50.60
40-70	225.17	N.A.	47.30
60-80	83.10	N.A.	17.40
70-80	25.06	N.A.	5.30
80-90	6.20	N.A.	1.30
90-110	3.67	N.A.	0.80
90-120	4.68	N.A.	1.00
90-130	5.32	N.A.	1.10
90-150	5.73	N.A.	1.20
90-180	5.73	N.A.	1.20
110-180	2.06	N.A.	0.40
0-180	476.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	15.73
10-20	45.17
20-30	69.14
30-40	84.11
40-50	87.81
50-60	79.31
60-70	58.04
70-80	25.06
80-90	6.20
90-100	2.25
100-110	1.42
110-120	1.01
120-130	0.64
130-140	0.32
140-150	0.09
150-160	0.00
160-170	0.00
170-180	0.00

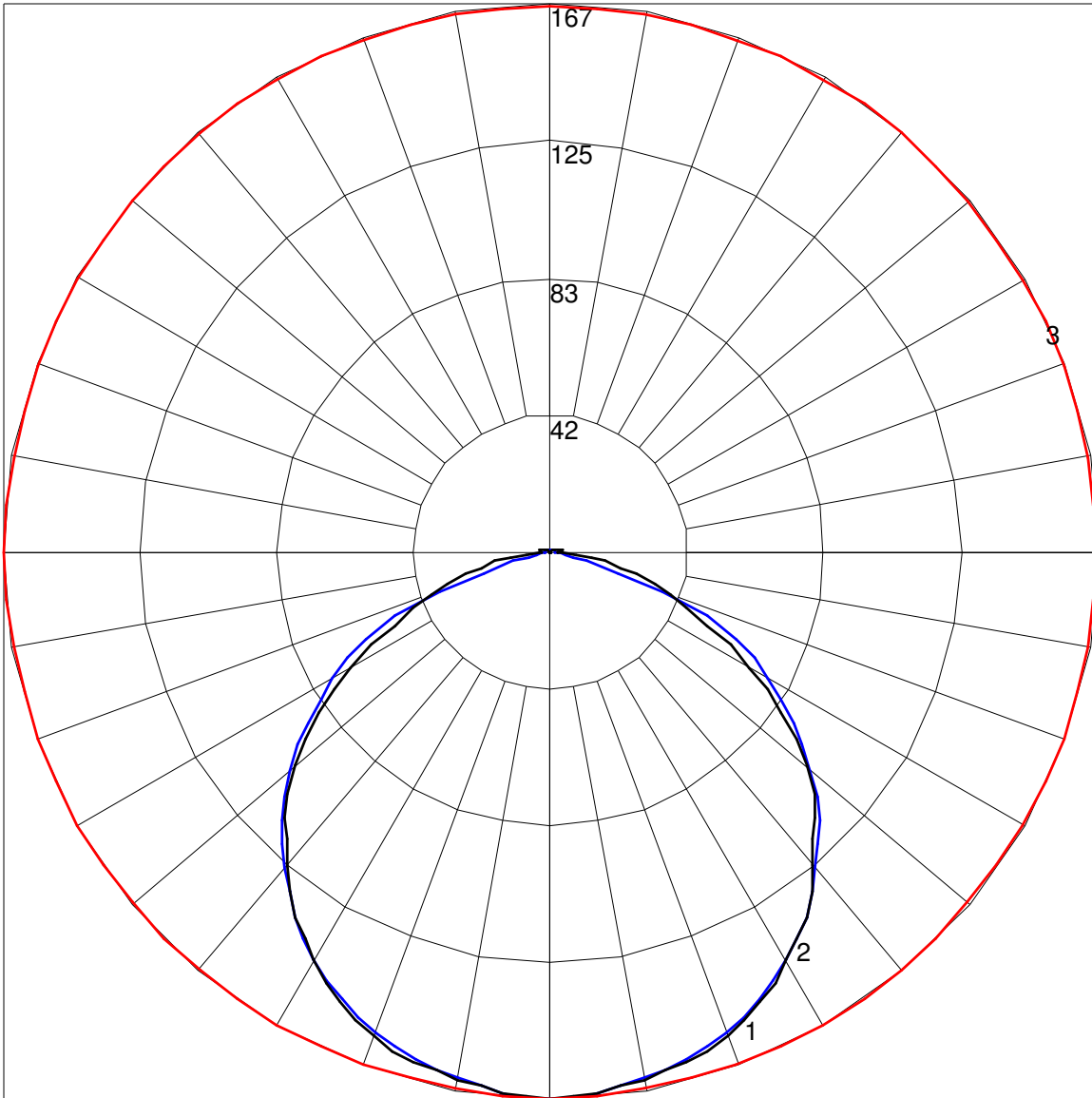
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	109	104	100	97	106	102	98	95	98	94	92	93	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	85	80	76	82	78	74	79	75	72	70
3	91	80	72	66	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	83	71	62	56	80	70	61	55	67	60	54	64	58	53	62	57	53	50
5	76	63	54	48	74	62	54	48	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	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	29	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 = 166.78 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.)