

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C5R-60115-00-120E8-35-NA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3163  
 [ECN] 3167  
 [TESTLAB] Tempo LLC  
 [ISSUEDATE] 7/5/2017 11:43:01 AM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C5R-60115-00-120E8-35-NA  
 [LUMINAIRE] Light gray aluminum housing with lightly frosted lens  
 [LAMP] Sixteen (16) white LEDs (3500K) with 60 deg x 115 deg optic  
 [ELECTRICALS] 120.05 VAC, 0.07 A, 0.9932 PF, 17% ATHD

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	494
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	7.98
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	32	151
55	29	34	216
65	42	44	337
75	67	65	464
85	103	113	491

**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>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>20.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>30.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>40.0</b>	0.76	0.78	0.80	0.80	0.79	0.80	0.79	0.82	0.84	0.89
<b>50.0</b>	0.84	0.87	0.88	0.88	0.88	0.86	0.83	0.86	0.87	0.93
<b>60.0</b>	1.31	1.32	1.33	1.31	1.29	1.24	1.18	1.14	1.10	1.12
<b>70.0</b>	1.99	1.96	1.93	1.93	1.94	1.88	1.82	1.78	1.73	1.64
<b>80.0</b>	3.34	3.31	3.27	3.24	3.20	3.07	2.95	2.81	2.68	2.51
<b>90.0</b>	4.77	4.76	4.75	4.78	4.80	4.72	4.64	4.60	4.55	4.48
<b>92.5</b>	5.20	5.20	5.19	5.22	5.25	5.22	5.18	5.20	5.22	5.23
<b>95.0</b>	5.66	5.69	5.71	5.74	5.75	5.79	5.83	5.92	6.00	6.13
<b>97.5</b>	6.20	6.22	6.23	6.30	6.36	6.47	6.57	6.75	6.94	7.20
<b>100.0</b>	6.78	6.81	6.83	6.95	7.07	7.25	7.43	7.73	8.02	8.46
<b>102.5</b>	7.47	7.54	7.60	7.76	7.93	8.19	8.45	8.86	9.26	9.96
<b>105.0</b>	8.37	8.46	8.54	8.76	8.97	9.31	9.65	10.21	10.76	11.59
<b>107.5</b>	9.50	9.62	9.74	10.00	10.25	10.70	11.14	11.81	12.47	13.55
<b>110.0</b>	10.92	11.00	11.09	11.43	11.77	12.29	12.81	13.67	14.52	15.85
<b>112.5</b>	12.48	12.63	12.77	13.14	13.50	14.16	14.81	15.84	16.86	18.48
<b>115.0</b>	14.38	14.54	14.69	15.13	15.57	16.33	17.10	18.32	19.55	21.49
<b>117.5</b>	16.53	16.70	16.86	17.40	17.93	18.83	19.74	21.25	22.76	25.06
<b>120.0</b>	18.89	19.16	19.44	20.02	20.59	21.76	22.91	24.70	26.49	29.21
<b>122.5</b>	21.78	22.04	22.29	23.05	23.81	25.20	26.57	28.80	31.02	34.21
<b>125.0</b>	25.05	25.43	25.81	26.71	27.60	29.31	31.01	33.70	36.39	40.16
<b>127.5</b>	29.04	29.49	29.93	31.06	32.19	34.27	36.34	39.62	42.89	47.41
<b>130.0</b>	34.12	34.62	35.12	36.53	37.94	40.47	43.00	46.94	50.88	56.18
<b>132.5</b>	40.28	41.05	41.82	43.46	45.09	48.20	51.31	55.90	60.48	66.77
<b>135.0</b>	48.45	49.32	50.19	52.28	54.37	57.95	61.54	66.99	72.43	79.59
<b>137.5</b>	58.71	59.85	60.99	63.40	65.81	69.98	74.15	80.40	86.64	94.74
<b>140.0</b>	71.55	72.91	74.26	77.02	79.78	84.58	89.38	96.42	103.45	112.53
<b>142.5</b>	87.41	88.80	90.18	93.45	96.72	102.04	107.35	115.35	123.34	133.03
<b>145.0</b>	105.90	107.86	109.81	113.24	116.67	122.77	128.88	137.27	145.66	155.59
<b>147.5</b>	129.10	130.84	132.57	136.59	140.60	146.87	153.12	161.85	170.57	180.18
<b>150.0</b>	155.38	157.20	159.01	163.08	167.15	173.46	179.76	188.09	196.41	205.15
<b>152.5</b>	184.37	186.08	187.79	191.57	195.35	201.34	207.33	214.74	222.15	229.61
<b>155.0</b>	215.64	216.26	216.87	220.61	224.35	229.29	234.23	240.55	246.87	252.53
<b>157.5</b>	244.58	245.29	246.00	248.48	250.96	255.25	259.53	264.00	268.46	272.47
<b>160.0</b>	271.99	271.51	271.04	273.28	275.52	278.28	281.04	284.25	287.44	289.59
<b>162.5</b>	293.67	293.11	292.55	293.90	295.25	296.93	298.59	300.17	301.74	302.42
<b>165.0</b>	309.87	309.55	309.23	309.49	309.74	310.50	311.26	311.49	311.72	311.32
<b>167.5</b>	321.42	320.04	318.65	319.08	319.49	318.98	318.47	318.21	317.94	316.83
<b>170.0</b>	324.88	324.56	324.25	323.47	322.70	322.41	322.13	321.09	320.05	318.91
<b>172.5</b>	325.20	324.34	323.48	323.27	323.07	322.39	321.70	321.01	320.31	319.36
<b>175.0</b>	322.06	321.50	320.94	320.76	320.59	320.27	319.96	319.56	319.15	318.64
<b>177.5</b>	318.17	318.38	318.60	318.21	317.81	317.99	318.16	317.92	317.67	317.55
<b>180.0</b>	317.00	317.00	317.00	317.00	317.00	317.00	317.00	317.00	317.00	317.00

**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>
<b>0.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>20.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>30.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**CANDELA TABULATION - (Cont.)**

40.0	0.94	0.99	1.04	1.12	1.20	1.26	1.32	1.34	1.36
50.0	0.99	1.05	1.10	1.19	1.28	1.39	1.49	1.52	1.56
60.0	1.13	1.18	1.24	1.38	1.53	1.70	1.87	2.07	2.26
70.0	1.55	1.48	1.40	1.49	1.57	1.85	2.13	2.55	2.96
80.0	2.34	2.15	1.95	1.79	1.63	1.76	1.89	2.44	2.98
90.0	4.40	4.19	3.98	3.57	3.15	2.60	2.05	1.92	1.79
92.5	5.25	5.13	5.02	4.72	4.41	3.90	3.40	3.20	3.01
95.0	6.25	6.36	6.45	6.38	6.29	6.12	5.94	5.94	5.93
97.5	7.46	7.79	8.12	8.44	8.75	9.14	9.52	9.86	10.19
100.0	8.89	9.51	10.11	10.91	11.71	12.83	13.94	14.61	15.28
102.5	10.65	11.59	12.53	13.86	15.19	17.03	18.88	20.02	21.17
105.0	12.41	13.74	15.05	17.08	19.09	21.67	24.25	25.80	27.35
107.5	14.62	16.32	18.02	20.66	23.29	26.71	30.13	31.92	33.71
110.0	17.17	19.23	21.27	24.61	27.94	32.02	36.09	38.37	40.64
112.5	20.09	22.59	25.09	28.94	32.78	37.64	42.49	44.98	47.47
115.0	23.43	26.37	29.29	33.72	38.14	43.49	48.84	51.59	54.33
117.5	27.35	30.72	34.08	39.05	44.00	49.67	55.33	58.30	61.26
120.0	31.93	35.86	39.78	45.09	50.40	56.44	62.49	65.33	68.17
122.5	37.40	41.82	46.22	52.17	58.12	64.10	70.08	73.02	75.96
125.0	43.93	49.08	54.24	60.51	66.78	72.91	79.03	81.68	84.32
127.5	51.92	57.82	63.72	70.44	77.17	83.22	89.27	91.70	94.12
130.0	61.48	68.22	74.95	82.23	89.50	95.27	101.04	103.51	105.97
132.5	73.05	80.75	88.46	95.90	103.34	109.32	115.29	117.24	119.18
135.0	86.75	95.16	103.57	111.73	119.89	125.28	130.68	132.71	134.74
137.5	102.84	112.19	121.55	129.66	137.77	143.00	148.23	149.63	151.03
140.0	121.62	131.56	141.49	149.33	157.17	161.82	166.46	167.37	168.28
142.5	142.72	152.62	162.50	170.21	177.92	181.32	184.73	185.65	186.58
145.0	165.53	175.39	185.24	191.56	197.88	200.86	203.84	203.67	203.50
147.5	189.78	198.43	207.07	212.69	218.31	219.61	220.92	220.92	220.92
150.0	213.88	221.32	228.75	232.78	236.79	237.21	237.62	237.00	236.38
152.5	237.07	242.92	248.77	251.05	253.32	252.97	252.61	251.50	250.38
155.0	258.19	262.01	265.82	267.15	268.47	266.69	264.91	264.34	263.78
157.5	276.47	278.84	281.21	280.53	279.84	278.33	276.81	275.34	273.86
160.0	291.74	292.12	292.50	291.38	290.25	287.89	285.53	284.82	284.10
162.5	303.10	302.38	301.66	299.82	297.97	295.72	293.47	292.72	291.97
165.0	310.92	309.60	308.27	306.01	303.74	302.15	300.56	299.44	298.31
167.5	315.72	313.77	311.82	310.48	309.13	307.03	304.91	304.99	305.05
170.0	317.77	316.44	315.11	313.37	311.63	310.90	310.16	309.37	308.58
172.5	318.41	317.27	316.11	315.30	314.49	313.48	312.46	312.58	312.71
175.0	318.12	317.43	316.75	316.33	315.91	315.35	314.78	314.90	315.02
177.5	317.42	317.31	317.20	316.71	316.22	316.52	316.82	316.42	316.03
180.0	317.00	317.00	317.00	317.00	317.00	317.00	317.00	317.00	317.00

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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	0.31	N.A.	0.10
0-60	2.19	N.A.	0.40
0-80	6.12	N.A.	1.20
0-90	9.68	N.A.	2.00
10-90	9.68	N.A.	2.00
20-40	0.31	N.A.	0.10
20-50	1.10	N.A.	0.20
40-70	3.48	N.A.	0.70
60-80	3.93	N.A.	0.80
70-80	2.33	N.A.	0.50
80-90	3.56	N.A.	0.70
90-110	21.91	N.A.	4.40
90-120	48.67	N.A.	9.80
90-130	91.05	N.A.	18.40
90-150	256.00	N.A.	51.80
90-180	484.70	N.A.	98.00
110-180	462.79	N.A.	93.60
0-180	494.38	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	0.31
40-50	0.79
50-60	1.10
60-70	1.60
70-80	2.33
80-90	3.56
90-100	6.83
100-110	15.08
110-120	26.77
120-130	42.37
130-140	67.00
140-150	97.95
150-160	112.33
160-170	85.99
170-180	30.38

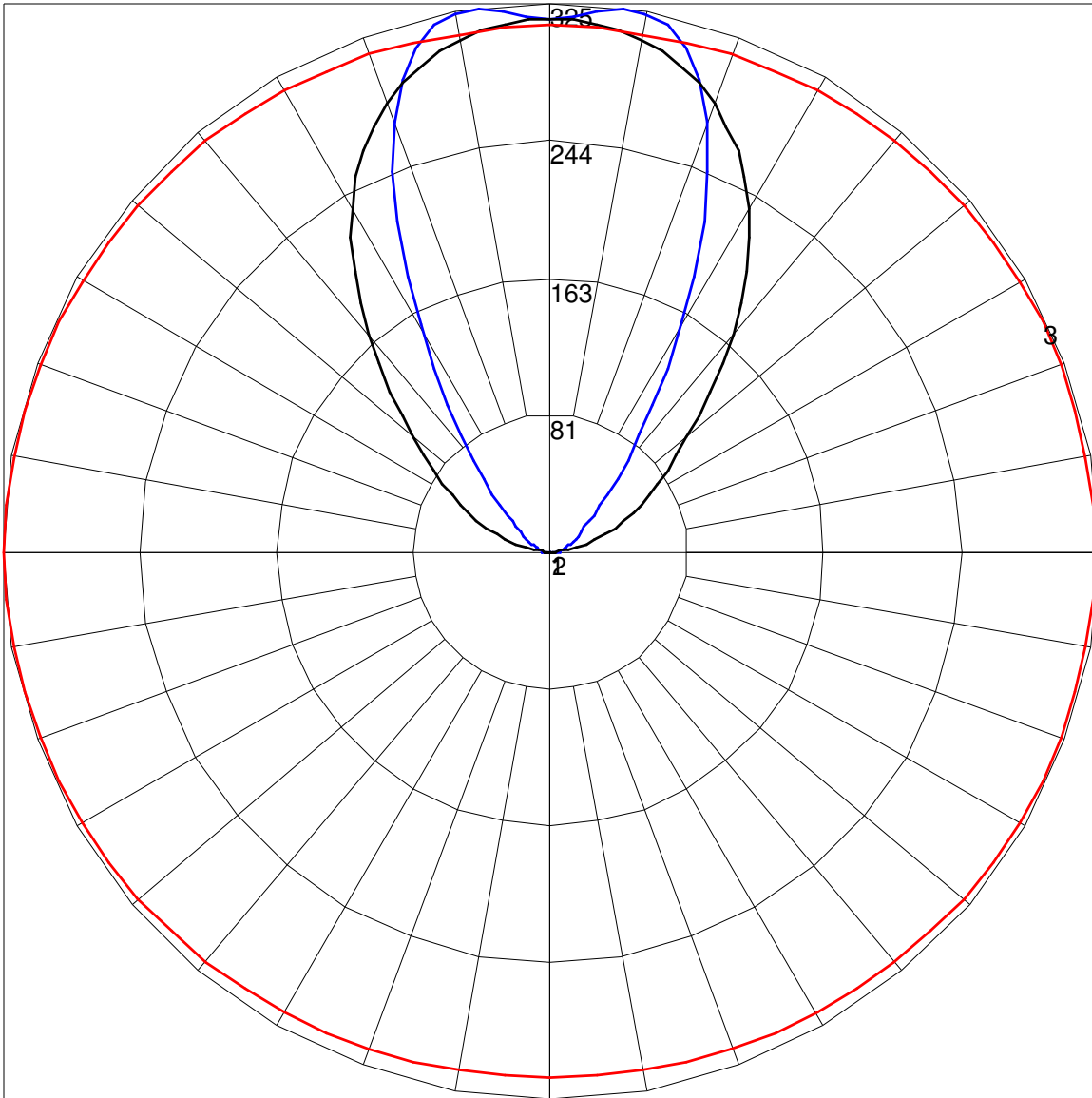
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	76	74	71	68	65	49	47	45	29	28	27	10	10	9	1
2	79	72	66	61	67	62	57	53	43	40	37	25	23	22	9	8	8	1
3	72	63	56	51	61	54	49	44	37	34	31	22	20	18	8	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	42	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	28	23	23	19	16	14	12	10	5	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	4	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 = 325.2 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.)