

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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3163  
 [ECN] 3338  
 [TESTLAB] Tempo LLC  
 [ISSUE DATE] 7/5/2017 Revised 12/12/2017  
 [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	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	1415	2819	13895
55	672	1324	9521
65	367	682	7013
75	210	365	4272
85	143	198	1220

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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>	317.11	317.11	317.11	317.11	317.11	317.11	317.11	317.11	317.11	317.11
<b>2.5</b>	318.17	318.39	318.60	318.21	317.81	317.99	318.16	317.92	317.67	317.55
<b>5.0</b>	322.06	321.50	320.94	320.76	320.59	320.28	319.96	319.56	319.15	318.64
<b>7.5</b>	325.20	324.34	323.48	323.27	323.07	322.39	321.70	321.01	320.31	319.36
<b>10.0</b>	324.88	324.56	324.25	323.47	322.70	322.41	322.13	321.09	320.05	318.91
<b>12.5</b>	321.42	320.04	318.65	319.08	319.49	318.98	318.47	318.21	317.94	316.83
<b>15.0</b>	309.87	309.55	309.23	309.49	309.74	310.50	311.26	311.49	311.72	311.32
<b>17.5</b>	293.67	293.11	292.55	293.90	295.25	296.93	298.59	300.17	301.74	302.42
<b>20.0</b>	271.99	271.51	271.04	273.28	275.52	278.28	281.04	284.25	287.44	289.59
<b>22.5</b>	244.58	245.29	246.00	248.48	250.96	255.25	259.53	264.00	268.46	272.47
<b>25.0</b>	215.64	216.26	216.87	220.61	224.35	229.29	234.23	240.55	246.87	252.53
<b>27.5</b>	184.37	186.08	187.79	191.57	195.35	201.34	207.33	214.74	222.15	229.61
<b>30.0</b>	155.38	157.20	159.01	163.08	167.15	173.46	179.76	188.09	196.41	205.15
<b>32.5</b>	129.10	130.84	132.57	136.59	140.60	146.87	153.12	161.85	170.57	180.18
<b>35.0</b>	105.90	107.86	109.81	113.24	116.67	122.77	128.88	137.27	145.66	155.59
<b>37.5</b>	87.41	88.80	90.18	93.45	96.72	102.04	107.35	115.35	123.34	133.03
<b>40.0</b>	71.55	72.91	74.26	77.02	79.78	84.58	89.38	96.42	103.45	112.53
<b>42.5</b>	58.71	59.85	60.99	63.40	65.81	69.98	74.15	80.40	86.64	94.74
<b>45.0</b>	48.45	49.32	50.19	52.28	54.37	57.95	61.54	66.99	72.43	79.59
<b>47.5</b>	40.28	41.05	41.82	43.46	45.09	48.20	51.31	55.90	60.48	66.77
<b>50.0</b>	34.12	34.62	35.12	36.53	37.94	40.47	43.00	46.94	50.88	56.18
<b>52.5</b>	29.04	29.49	29.93	31.06	32.19	34.27	36.34	39.62	42.89	47.41
<b>55.0</b>	25.05	25.43	25.81	26.71	27.60	29.31	31.01	33.70	36.39	40.16
<b>57.5</b>	21.78	22.04	22.29	23.05	23.81	25.20	26.57	28.80	31.02	34.21
<b>60.0</b>	18.89	19.16	19.44	20.02	20.59	21.76	22.91	24.70	26.49	29.21
<b>62.5</b>	16.53	16.70	16.86	17.40	17.93	18.83	19.74	21.25	22.76	25.06
<b>65.0</b>	14.38	14.54	14.69	15.13	15.57	16.33	17.10	18.32	19.55	21.49
<b>67.5</b>	12.48	12.63	12.77	13.14	13.50	14.16	14.81	15.84	16.86	18.48
<b>70.0</b>	10.92	11.00	11.09	11.43	11.77	12.29	12.81	13.67	14.52	15.85
<b>72.5</b>	9.50	9.62	9.74	10.00	10.25	10.70	11.14	11.81	12.47	13.55
<b>75.0</b>	8.37	8.46	8.54	8.76	8.97	9.31	9.65	10.21	10.76	11.59
<b>77.5</b>	7.47	7.54	7.60	7.76	7.93	8.19	8.45	8.86	9.26	9.96
<b>80.0</b>	6.78	6.81	6.83	6.95	7.07	7.25	7.43	7.73	8.02	8.46
<b>82.5</b>	6.20	6.22	6.23	6.30	6.36	6.47	6.57	6.75	6.94	7.20
<b>85.0</b>	5.66	5.69	5.71	5.74	5.75	5.79	5.83	5.92	6.00	6.13
<b>87.5</b>	5.20	5.20	5.19	5.22	5.25	5.22	5.18	5.20	5.22	5.23
<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>100.0</b>	3.34	3.31	3.27	3.24	3.20	3.07	2.95	2.81	2.68	2.51
<b>110.0</b>	1.99	1.96	1.93	1.93	1.94	1.88	1.82	1.78	1.73	1.64
<b>120.0</b>	1.31	1.32	1.33	1.31	1.29	1.24	1.18	1.14	1.10	1.12
<b>130.0</b>	0.84	0.87	0.88	0.88	0.88	0.86	0.83	0.86	0.87	0.93
<b>140.0</b>	0.76	0.78	0.80	0.80	0.79	0.80	0.79	0.82	0.84	0.89
<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. 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>	317.11	317.11	317.11	317.11	317.11	317.11	317.11	317.11	317.11
<b>2.5</b>	317.42	317.31	317.20	316.71	316.22	316.52	316.82	316.42	316.03
<b>5.0</b>	318.12	317.43	316.75	316.33	315.91	315.35	314.78	314.90	315.02
<b>7.5</b>	318.41	317.27	316.11	315.30	314.49	313.48	312.46	312.58	312.71

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**CANDELA TABULATION - (Cont.)**

10.0	317.77	316.44	315.11	313.37	311.63	310.90	310.16	309.37	308.58
12.5	315.72	313.77	311.82	310.48	309.13	307.03	304.91	304.99	305.05
15.0	310.92	309.60	308.27	306.01	303.74	302.15	300.56	299.44	298.31
17.5	303.10	302.38	301.66	299.82	297.97	295.72	293.47	292.72	291.97
20.0	291.74	292.12	292.50	291.38	290.25	287.89	285.53	284.82	284.10
22.5	276.47	278.84	281.21	280.53	279.84	278.33	276.81	275.34	273.86
25.0	258.19	262.01	265.82	267.15	268.47	266.69	264.91	264.34	263.78
27.5	237.07	242.92	248.77	251.05	253.32	252.97	252.61	251.50	250.38
30.0	213.88	221.32	228.75	232.78	236.79	237.21	237.62	237.00	236.38
32.5	189.78	198.43	207.07	212.69	218.31	219.61	220.92	220.92	220.92
35.0	165.53	175.39	185.24	191.56	197.88	200.86	203.84	203.67	203.50
37.5	142.72	152.62	162.50	170.22	177.92	181.32	184.73	185.65	186.58
40.0	121.62	131.56	141.49	149.33	157.17	161.82	166.46	167.37	168.28
42.5	102.84	112.19	121.55	129.66	137.77	143.00	148.23	149.63	151.03
45.0	86.75	95.16	103.57	111.73	119.89	125.28	130.68	132.71	134.74
47.5	73.05	80.75	88.46	95.90	103.34	109.32	115.29	117.24	119.18
50.0	61.48	68.22	74.95	82.23	89.50	95.27	101.04	103.51	105.97
52.5	51.92	57.82	63.72	70.44	77.17	83.22	89.27	91.70	94.12
55.0	43.93	49.08	54.24	60.51	66.78	72.91	79.03	81.68	84.32
57.5	37.40	41.82	46.22	52.17	58.12	64.10	70.08	73.02	75.96
60.0	31.93	35.86	39.78	45.09	50.40	56.44	62.49	65.33	68.17
62.5	27.35	30.72	34.08	39.05	44.00	49.67	55.33	58.30	61.26
65.0	23.43	26.37	29.29	33.72	38.14	43.49	48.84	51.59	54.33
67.5	20.09	22.59	25.09	28.94	32.78	37.64	42.49	44.98	47.47
70.0	17.17	19.23	21.27	24.61	27.94	32.02	36.09	38.37	40.64
72.5	14.62	16.32	18.02	20.66	23.29	26.71	30.13	31.92	33.71
75.0	12.41	13.74	15.05	17.08	19.09	21.67	24.25	25.80	27.35
77.5	10.65	11.59	12.53	13.86	15.19	17.03	18.88	20.02	21.17
80.0	8.89	9.51	10.11	10.91	11.71	12.83	13.94	14.61	15.28
82.5	7.46	7.79	8.12	8.44	8.75	9.14	9.52	9.86	10.19
85.0	6.25	6.36	6.45	6.38	6.29	6.12	5.94	5.94	5.93
87.5	5.25	5.13	5.02	4.72	4.41	3.90	3.40	3.20	3.01
90.0	4.40	4.19	3.98	3.57	3.15	2.60	2.05	1.92	1.79
100.0	2.34	2.15	1.95	1.79	1.63	1.76	1.89	2.44	2.98
110.0	1.55	1.48	1.40	1.49	1.57	1.85	2.13	2.55	2.96
120.0	1.13	1.18	1.24	1.38	1.53	1.70	1.87	2.07	2.26
130.0	0.99	1.05	1.10	1.19	1.28	1.39	1.49	1.52	1.56
140.0	0.94	0.99	1.04	1.12	1.20	1.26	1.32	1.34	1.36
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	116.37	N.A.	23.50
0-30	228.70	N.A.	46.30
0-40	326.65	N.A.	66.10
0-60	436.03	N.A.	88.20
0-80	477.87	N.A.	96.70
0-90	484.70	N.A.	98.00
10-90	454.32	N.A.	91.90
20-40	210.29	N.A.	42.50
20-50	277.29	N.A.	56.10
40-70	136.14	N.A.	27.50
60-80	41.84	N.A.	8.50
70-80	15.08	N.A.	3.10
80-90	6.83	N.A.	1.40
90-110	5.89	N.A.	1.20
90-120	7.49	N.A.	1.50
90-130	8.58	N.A.	1.70
90-150	9.68	N.A.	2.00
90-180	9.68	N.A.	2.00
110-180	3.79	N.A.	0.80
0-180	494.38	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	30.38
10-20	85.99
20-30	112.33
30-40	97.95
40-50	67.00
50-60	42.37
60-70	26.77
70-80	15.08
80-90	6.83
90-100	3.56
100-110	2.33
110-120	1.60
120-130	1.10
130-140	0.79
140-150	0.31
150-160	0.00
160-170	0.00
170-180	0.00

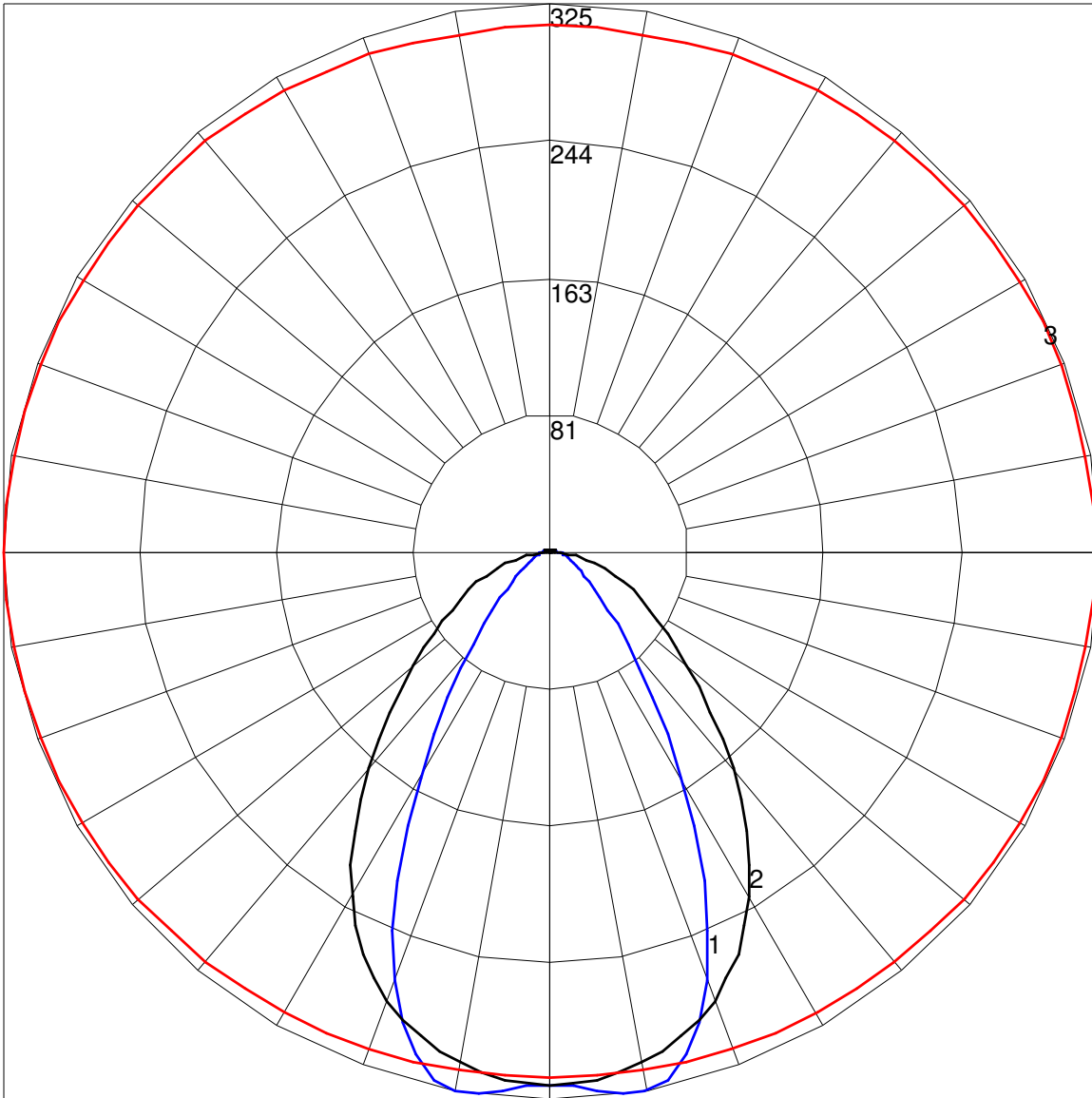
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	111	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	81	84	81	79	77
3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	72	67	87	78	71	66	75	70	65	73	68	64	71	66	63	61
5	83	73	65	60	81	71	64	59	69	63	58	67	62	58	65	61	57	55
6	78	67	59	54	76	66	59	53	64	58	53	62	57	52	61	56	52	50
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	56	51	47	46
8	69	57	50	45	67	56	49	45	55	49	44	54	48	44	53	47	44	42
9	65	53	46	41	64	53	46	41	51	45	41	50	45	41	49	44	40	39
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	46	41	37	36

POLAR GRAPH



Maximum Candela = 325.2 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.)