

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C5R-3580-00-120E5-35-NA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3355  
 [ECN] 3338  
 [TESTLAB] Tempo LLC  
 [ISSUE DATE] 2/7/2018 12:31:20 PM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C5R-3580-00-120E5-35-NA  
 [LUMINAIRE] Light gray aluminum housing with lightly frosted lens  
 [LAMP] Sixteen (16) white LEDs (3500K) with 35 deg x 80 deg optic and diffusing film  
 [ELECTRICALS] 120.06 VAC, 0.04 A, 0.9922 PF, 18% ATHD

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	345
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	4.58
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	0.70
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.04 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2010	3629	18536
55	1166	2167	11089
65	686	1361	5969
75	381	862	3282
85	287	546	1498

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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>	377.10	377.10	377.10	377.10	377.10	377.10	377.10	377.10	377.10	377.10
<b>2.5</b>	371.32	371.15	370.97	371.10	371.22	371.09	370.96	371.32	371.68	372.32
<b>5.0</b>	350.36	350.13	349.89	350.41	350.93	352.51	354.08	355.99	357.89	359.93
<b>7.5</b>	318.29	318.70	319.10	320.80	322.49	325.50	328.52	332.48	336.44	340.74
<b>10.0</b>	280.09	281.22	282.34	285.20	288.06	292.62	297.18	303.18	309.17	316.39
<b>12.5</b>	239.28	240.34	241.40	245.19	248.96	255.39	261.81	270.12	278.43	288.18
<b>15.0</b>	196.77	198.57	200.36	204.90	209.44	216.67	223.90	233.98	244.06	256.68
<b>17.5</b>	159.93	161.47	163.01	167.39	171.76	179.39	187.01	198.14	209.26	223.58
<b>20.0</b>	129.29	130.76	132.22	136.25	140.27	147.19	154.11	164.94	175.76	190.86
<b>22.5</b>	105.73	107.02	108.31	111.77	115.23	121.21	127.18	136.93	146.67	161.25
<b>25.0</b>	87.23	88.21	89.19	92.24	95.28	100.67	106.06	114.52	122.97	135.93
<b>27.5</b>	71.81	72.78	73.75	76.49	79.22	83.97	88.71	96.27	103.82	115.25
<b>30.0</b>	59.84	60.54	61.24	63.55	65.85	70.10	74.34	81.22	88.09	98.22
<b>32.5</b>	49.85	50.49	51.14	53.09	55.05	58.68	62.30	68.44	74.58	83.87
<b>35.0</b>	41.76	42.28	42.80	44.47	46.13	49.22	52.31	57.77	63.22	71.66
<b>37.5</b>	35.35	35.70	36.04	37.39	38.73	41.36	43.99	48.78	53.56	61.15
<b>40.0</b>	30.08	30.39	30.70	31.77	32.83	34.99	37.14	41.22	45.30	52.13
<b>42.5</b>	25.84	26.07	26.29	27.11	27.94	29.72	31.49	34.95	38.39	44.37
<b>45.0</b>	22.03	22.24	22.45	23.22	23.97	25.40	26.82	29.65	32.47	37.74
<b>47.5</b>	18.78	18.98	19.18	19.83	20.48	21.71	22.93	25.24	27.55	32.08
<b>50.0</b>	15.92	16.11	16.29	16.88	17.46	18.55	19.63	21.55	23.47	27.28
<b>52.5</b>	13.44	13.65	13.85	14.34	14.84	15.81	16.77	18.42	20.07	23.29
<b>55.0</b>	11.47	11.60	11.72	12.18	12.63	13.48	14.33	15.78	17.22	19.92
<b>57.5</b>	9.73	9.88	10.02	10.38	10.74	11.46	12.17	13.46	14.75	17.03
<b>60.0</b>	8.28	8.38	8.48	8.79	9.09	9.72	10.35	11.48	12.61	14.54
<b>62.5</b>	6.95	7.03	7.11	7.40	7.68	8.22	8.75	9.73	10.71	12.38
<b>65.0</b>	5.78	5.86	5.94	6.22	6.49	6.94	7.38	8.23	9.07	10.49
<b>67.5</b>	4.79	4.86	4.93	5.17	5.39	5.79	6.18	6.91	7.63	8.83
<b>70.0</b>	3.87	3.96	4.05	4.26	4.46	4.80	5.13	5.74	6.34	7.35
<b>72.5</b>	3.15	3.22	3.28	3.47	3.66	3.95	4.24	4.75	5.24	6.04
<b>75.0</b>	2.57	2.63	2.68	2.82	2.95	3.21	3.47	3.87	4.28	5.16
<b>77.5</b>	2.08	2.13	2.17	2.29	2.40	2.62	2.83	3.27	3.72	4.16
<b>80.0</b>	1.79	1.82	1.84	1.94	2.02	2.21	2.38	2.64	2.89	3.25
<b>82.5</b>	1.59	1.60	1.60	1.69	1.77	1.90	2.02	2.22	2.42	2.68
<b>85.0</b>	1.40	1.42	1.43	1.50	1.56	1.65	1.74	1.90	2.05	2.23
<b>87.5</b>	1.30	1.30	1.30	1.35	1.39	1.48	1.57	1.69	1.79	1.88
<b>90.0</b>	1.15	1.18	1.20	1.25	1.29	1.36	1.42	1.50	1.57	1.60
<b>100.0</b>	0.90	0.89	0.89	0.92	0.95	0.93	0.91	0.93	0.94	0.90
<b>110.0</b>	0.58	0.59	0.59	0.59	0.59	0.60	0.62	0.61	0.61	0.60
<b>120.0</b>	0.49	0.50	0.50	0.49	0.47	0.46	0.45	0.44	0.44	0.46
<b>130.0</b>	0.39	0.38	0.38	0.38	0.37	0.37	0.37	0.38	0.38	0.39
<b>140.0</b>	0.35	0.35	0.34	0.35	0.34	0.35	0.36	0.36	0.36	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>	377.10	377.10	377.10	377.10	377.10	377.10	377.10	377.10	377.10
<b>2.5</b>	372.95	373.28	373.61	373.80	373.98	374.66	375.34	375.00	374.66
<b>5.0</b>	361.96	364.07	366.17	367.94	369.70	370.60	371.50	372.29	373.08
<b>7.5</b>	345.04	349.55	354.05	357.83	361.61	364.12	366.61	367.75	368.89

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**CANDELA TABULATION - (Cont.)**

10.0	323.61	330.87	338.13	344.36	350.59	355.45	360.29	361.54	362.78
12.5	297.93	308.39	318.84	328.67	338.50	344.82	351.14	354.51	357.87
15.0	269.28	282.93	296.56	309.51	322.46	332.57	342.68	345.90	349.12
17.5	237.89	254.82	271.75	288.76	305.76	318.50	331.23	336.58	341.93
20.0	205.96	225.34	244.71	265.26	285.82	302.55	319.28	325.73	332.17
22.5	175.83	196.18	216.53	240.18	263.84	284.76	305.69	313.80	321.91
25.0	148.88	168.80	188.71	214.80	240.89	265.25	289.60	300.71	311.80
27.5	126.68	144.88	163.08	189.62	216.15	244.83	273.50	285.75	298.00
30.0	108.36	124.55	140.73	166.78	192.83	223.46	254.09	269.51	284.93
32.5	93.16	107.44	121.71	145.81	169.91	202.20	234.48	251.23	267.97
35.0	80.10	92.91	105.71	127.47	149.23	181.43	213.63	231.45	249.26
37.5	68.74	80.34	91.94	111.44	130.94	161.52	192.09	210.62	229.15
40.0	58.96	69.47	79.97	97.33	114.68	143.15	171.62	188.78	205.94
42.5	50.34	59.93	69.51	85.20	100.90	125.89	150.87	166.93	182.99
45.0	43.01	51.61	60.19	74.12	88.05	109.99	131.92	145.31	158.70
47.5	36.60	44.32	52.04	64.36	76.67	95.45	114.24	124.94	135.63
50.0	31.09	37.93	44.77	55.58	66.38	82.10	97.81	106.32	114.81
52.5	26.51	32.41	38.31	47.69	57.07	69.97	82.88	89.08	95.29
55.0	22.61	27.66	32.69	40.77	48.85	58.89	68.92	73.63	78.33
57.5	19.30	23.58	27.86	34.59	41.32	49.15	56.98	60.14	63.29
60.0	16.45	20.06	23.67	29.19	34.70	40.54	46.36	48.58	50.80
62.5	14.05	17.02	19.98	24.40	28.82	33.15	37.47	38.93	40.38
65.0	11.91	14.33	16.75	20.22	23.69	26.92	30.14	31.04	31.94
67.5	10.03	12.00	13.96	16.69	19.41	21.73	24.05	24.73	25.40
70.0	8.36	9.91	11.45	13.51	15.57	17.27	18.97	19.39	19.80
72.5	6.83	8.17	9.51	10.93	12.35	13.45	14.55	14.80	15.04
75.0	6.03	6.92	7.80	8.68	9.55	10.33	11.10	11.26	11.41
77.5	4.60	5.22	5.84	6.54	7.23	7.75	8.27	8.31	8.36
80.0	3.61	4.06	4.51	4.96	5.39	5.65	5.90	5.91	5.91
82.5	2.93	3.21	3.48	3.69	3.89	3.94	3.99	3.92	3.85
85.0	2.40	2.54	2.68	2.70	2.72	2.59	2.44	2.35	2.24
87.5	1.97	2.00	2.03	1.95	1.87	1.64	1.41	1.28	1.15
90.0	1.63	1.61	1.59	1.44	1.28	1.08	0.87	0.83	0.78
100.0	0.86	0.81	0.75	0.72	0.69	0.77	0.85	1.00	1.15
110.0	0.58	0.59	0.59	0.67	0.74	0.85	0.97	1.12	1.27
120.0	0.47	0.50	0.52	0.59	0.66	0.77	0.87	1.03	1.18
130.0	0.40	0.44	0.47	0.53	0.59	0.61	0.63	0.67	0.70
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	106.49	N.A.	30.90
0-30	182.37	N.A.	52.90
0-40	245.11	N.A.	71.10
0-60	317.57	N.A.	92.10
0-80	338.82	N.A.	98.30
0-90	341.25	N.A.	99.00
10-90	308.17	N.A.	89.40
20-40	138.62	N.A.	40.20
20-50	183.48	N.A.	53.20
40-70	87.11	N.A.	25.30
60-80	21.24	N.A.	6.20
70-80	6.60	N.A.	1.90
80-90	2.43	N.A.	0.70
90-110	2.02	N.A.	0.60
90-120	2.65	N.A.	0.80
90-130	3.12	N.A.	0.90
90-150	3.41	N.A.	1.00
90-180	3.41	N.A.	1.00
110-180	1.39	N.A.	0.40
0-180	344.66	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	33.08
10-20	73.41
20-30	75.88
30-40	62.74
40-50	44.86
50-60	27.60
60-70	14.65
70-80	6.60
80-90	2.43
90-100	1.19
100-110	0.83
110-120	0.63
120-130	0.47
130-140	0.24
140-150	0.05
150-160	0.00
160-170	0.00
170-180	0.00

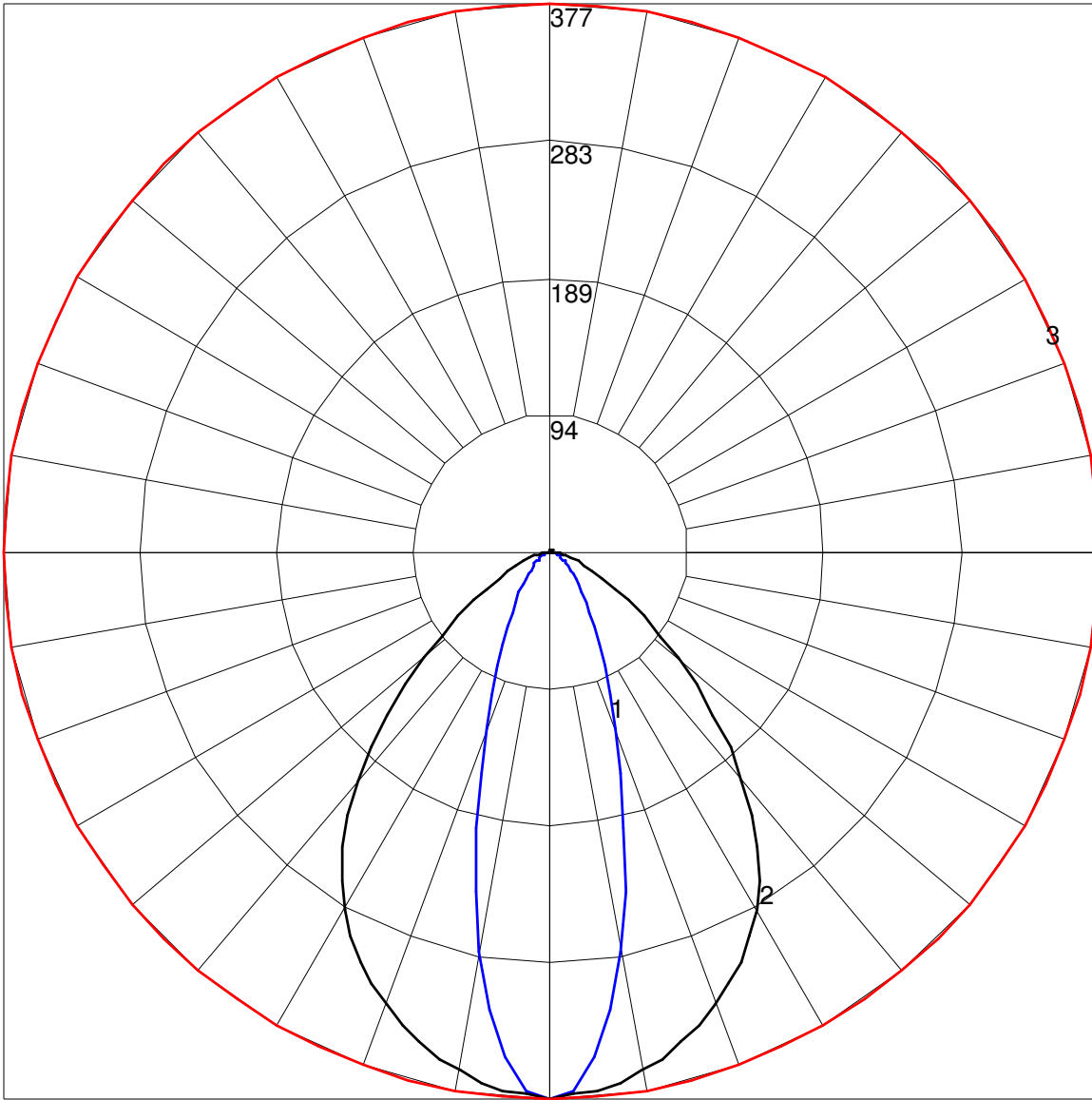
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	111	108	105	102	109	106	103	100	101	99	97	97	96	94	94	92	91	89
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	98	90	84	79	95	88	83	78	85	81	77	83	79	75	80	77	74	72
4	92	82	76	71	90	81	75	70	79	73	69	77	72	68	74	70	67	65
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	69	65	61	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	59	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

POLAR GRAPH



Maximum Candela = 377.1 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 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 (0) (Through Max. Cd.)