

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C5R-3580-00-120E8-35-NA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3354
 [ECN] 3338
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 2/7/2018 9:34:43 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C5R-3580-00-120E8-35-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] 120.03 VAC, 0.07 A, 0.9926 PF, 16% ATHD

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	548
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	8.01
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	3336	5890	28803
55	1961	3520	17148
65	1189	2219	9256
75	628	1331	5074
85	449	867	2267

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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	595.83	595.83	595.83	595.83	595.83	595.83	595.83	595.83	595.83	595.83
2.5	587.82	587.08	586.34	586.19	586.02	586.15	586.27	586.86	587.44	588.23
5.0	553.28	552.89	552.50	553.62	554.72	557.28	559.83	562.85	565.86	568.75
7.5	502.87	503.34	503.80	506.70	509.60	514.40	519.20	525.41	531.62	538.48
10.0	443.17	444.84	446.50	450.75	455.00	462.36	469.71	479.21	488.71	500.47
12.5	378.96	381.12	383.27	389.11	394.94	404.80	414.66	427.63	440.60	456.24
15.0	314.47	316.73	318.98	325.98	332.97	344.66	356.34	372.11	387.88	407.11
17.5	255.57	258.00	260.43	267.59	274.74	286.62	298.49	315.82	333.15	355.73
20.0	207.19	209.54	211.89	218.23	224.56	235.64	246.71	263.85	280.98	304.91
22.5	170.11	172.09	174.07	179.53	184.98	194.67	204.36	219.90	235.44	258.48
25.0	140.13	141.79	143.44	148.45	153.45	162.07	170.68	184.20	197.72	218.31
27.5	116.21	117.60	118.99	123.26	127.53	135.33	143.13	155.27	167.41	185.41
30.0	97.05	98.23	99.41	103.02	106.64	113.26	119.87	130.85	141.83	158.10
32.5	81.58	82.56	83.54	86.59	89.64	95.25	100.86	110.57	120.28	135.02
35.0	68.72	69.49	70.26	72.93	75.60	80.40	85.20	93.72	102.23	115.39
37.5	58.29	58.84	59.38	61.59	63.81	67.96	72.10	79.55	86.99	98.68
40.0	49.68	50.16	50.64	52.45	54.25	57.68	61.10	67.45	73.80	84.24
42.5	42.59	43.00	43.41	44.88	46.34	49.08	51.81	57.19	62.57	71.86
45.0	36.56	36.91	37.25	38.49	39.73	41.96	44.18	48.68	53.17	61.25
47.5	31.28	31.57	31.86	32.92	33.98	35.85	37.72	41.49	45.25	52.10
50.0	26.52	26.85	27.18	28.10	29.03	30.68	32.32	35.41	38.50	44.37
52.5	22.62	22.87	23.11	23.93	24.74	26.23	27.71	30.28	32.85	37.82
55.0	19.30	19.53	19.75	20.41	21.06	22.39	23.71	25.95	28.19	32.36
57.5	16.51	16.68	16.86	17.42	17.99	19.13	20.26	22.22	24.18	27.67
60.0	14.09	14.23	14.37	14.83	15.29	16.27	17.24	19.01	20.77	23.71
62.5	11.88	12.02	12.16	12.57	12.98	13.78	14.58	16.09	17.59	20.15
65.0	10.02	10.12	10.22	10.57	10.92	11.62	12.32	13.61	14.90	17.10
67.5	8.22	8.33	8.43	8.76	9.09	9.69	10.29	11.44	12.58	14.41
70.0	6.70	6.80	6.90	7.17	7.45	7.98	8.52	9.48	10.44	11.96
72.5	5.30	5.41	5.52	5.76	6.01	6.49	6.96	7.73	8.50	9.79
75.0	4.24	4.33	4.42	4.67	4.91	5.27	5.62	6.28	6.92	7.97
77.5	3.40	3.49	3.58	3.78	3.97	4.31	4.65	5.17	5.68	6.48
80.0	2.82	2.89	2.95	3.12	3.28	3.55	3.81	4.23	4.65	5.23
82.5	2.45	2.50	2.54	2.67	2.80	3.02	3.23	3.54	3.84	4.28
85.0	2.19	2.22	2.24	2.37	2.50	2.66	2.81	3.04	3.26	3.54
87.5	2.02	2.07	2.11	2.16	2.21	2.35	2.49	2.67	2.84	2.98
90.0	1.86	1.90	1.94	1.98	2.03	2.14	2.24	2.34	2.43	2.52
100.0	1.28	1.33	1.38	1.40	1.42	1.44	1.45	1.46	1.46	1.42
110.0	0.86	0.87	0.88	0.89	0.91	0.92	0.92	0.94	0.96	0.93
120.0	0.69	0.69	0.67	0.68	0.68	0.67	0.65	0.65	0.64	0.67
130.0	0.59	0.59	0.58	0.56	0.53	0.53	0.52	0.55	0.58	0.60
140.0	0.55	0.54	0.53	0.52	0.50	0.54	0.57	0.58	0.58	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. 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>
0.0	595.83	595.83	595.83	595.83	595.83	595.83	595.83	595.83	595.83
2.5	589.01	589.83	590.64	590.97	591.29	591.77	592.26	592.73	593.19
5.0	571.64	574.82	578.00	580.92	583.84	586.08	588.31	589.20	590.09
7.5	545.33	552.57	559.80	565.88	571.97	576.17	580.37	582.24	584.11

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CANDELA TABULATION - (Cont.)

10.0	512.23	523.83	535.42	545.71	556.00	562.83	569.64	572.32	574.99
12.5	471.87	488.45	505.02	520.27	535.53	546.45	557.38	561.57	565.77
15.0	426.34	447.91	469.47	490.54	511.62	527.33	543.04	549.40	555.76
17.5	378.29	404.47	430.65	457.46	484.28	505.11	525.93	534.40	542.85
20.0	328.84	359.04	389.23	421.47	453.71	479.84	505.96	516.37	526.77
22.5	281.51	313.31	345.11	382.34	419.57	451.70	483.82	497.12	510.42
25.0	238.89	270.00	301.09	341.68	382.26	420.81	459.35	476.13	492.90
27.5	203.41	232.08	260.75	302.44	344.12	388.10	432.08	452.01	471.94
30.0	174.36	200.05	225.74	266.11	306.47	354.07	401.66	424.56	447.45
32.5	149.76	172.46	195.15	232.96	270.77	320.00	369.23	394.91	420.58
35.0	128.54	148.94	169.33	203.27	237.21	286.61	336.01	363.60	391.18
37.5	110.36	128.61	146.85	177.21	207.57	254.94	302.30	329.99	357.68
40.0	94.68	111.11	127.54	154.72	181.90	225.14	268.39	294.87	321.34
42.5	81.15	95.87	110.58	134.86	159.13	197.50	235.85	259.59	283.33
45.0	69.32	82.42	95.51	117.01	138.50	172.21	205.92	226.26	246.60
47.5	58.95	70.59	82.22	101.16	120.10	149.16	178.21	194.53	210.84
50.0	50.22	60.46	70.69	87.23	103.76	127.98	152.19	165.05	177.90
52.5	42.78	51.71	60.64	74.93	89.23	108.81	128.39	138.08	147.77
55.0	36.52	44.15	51.77	63.85	75.92	91.51	107.09	114.11	121.13
57.5	31.16	37.56	43.96	54.11	64.27	76.34	88.40	93.37	98.34
60.0	26.65	32.00	37.34	45.57	53.80	62.91	72.02	75.40	78.78
62.5	22.70	27.17	31.63	38.16	44.68	51.35	58.01	60.28	62.55
65.0	19.29	22.91	26.53	31.65	36.76	41.63	46.50	48.01	49.53
67.5	16.24	19.13	22.02	26.01	30.00	33.61	37.22	38.18	39.13
70.0	13.48	15.78	18.08	20.99	23.88	26.41	28.93	29.61	30.28
72.5	11.08	12.88	14.67	16.80	18.93	20.70	22.46	22.84	23.21
75.0	9.01	10.38	11.74	13.25	14.75	15.96	17.16	17.40	17.64
77.5	7.28	8.24	9.20	10.23	11.25	12.00	12.75	12.85	12.95
80.0	5.80	6.46	7.13	7.75	8.37	8.76	9.14	9.12	9.09
82.5	4.71	5.12	5.52	5.81	6.10	6.11	6.11	6.03	5.95
85.0	3.81	4.04	4.26	4.24	4.22	3.99	3.75	3.57	3.39
87.5	3.12	3.18	3.22	3.07	2.92	2.56	2.19	1.94	1.69
90.0	2.59	2.54	2.48	2.24	2.00	1.66	1.32	1.26	1.19
100.0	1.37	1.26	1.14	1.09	1.04	1.14	1.24	1.47	1.70
110.0	0.90	0.89	0.87	0.98	1.08	1.25	1.42	1.62	1.83
120.0	0.69	0.72	0.74	0.87	1.00	1.17	1.33	1.55	1.78
130.0	0.60	0.69	0.78	0.80	0.81	0.88	0.93	1.02	1.11
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	168.84	N.A.	30.80
0-30	289.92	N.A.	52.90
0-40	390.02	N.A.	71.20
0-60	505.09	N.A.	92.20
0-80	538.73	N.A.	98.40
0-90	542.56	N.A.	99.10
10-90	490.27	N.A.	89.50
20-40	221.18	N.A.	40.40
20-50	292.46	N.A.	53.40
40-70	138.34	N.A.	25.30
60-80	33.64	N.A.	6.10
70-80	10.37	N.A.	1.90
80-90	3.83	N.A.	0.70
90-110	3.10	N.A.	0.60
90-120	4.04	N.A.	0.70
90-130	4.73	N.A.	0.90
90-150	5.18	N.A.	0.90
90-180	5.18	N.A.	0.90
110-180	2.07	N.A.	0.40
0-180	547.74	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.29
10-20	116.55
20-30	121.08
30-40	100.10
40-50	71.28
50-60	43.78
60-70	23.28
70-80	10.37
80-90	3.83
90-100	1.85
100-110	1.25
110-120	0.93
120-130	0.69
130-140	0.37
140-150	0.08
150-160	0.00
160-170	0.00
170-180	0.00

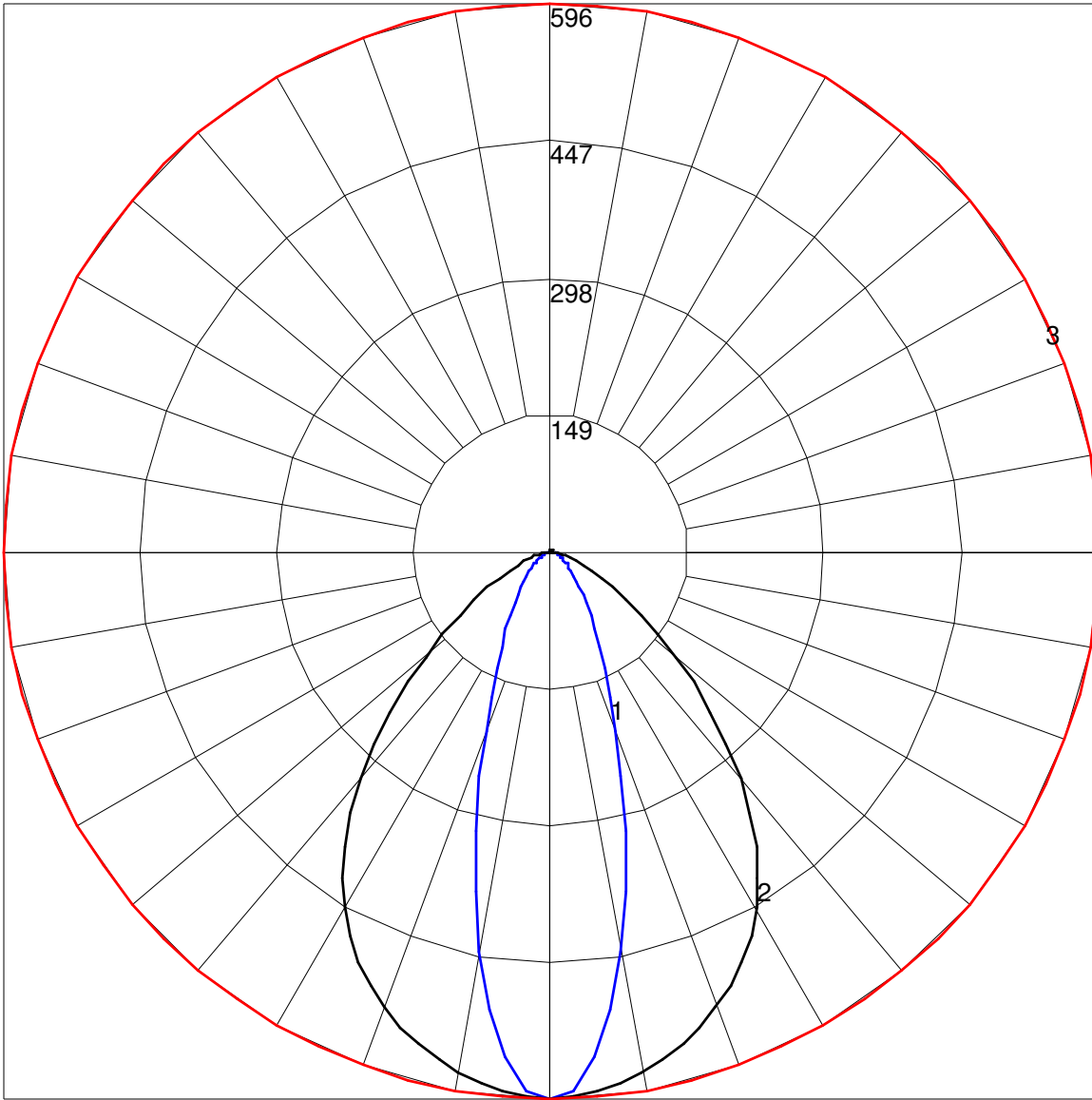
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	101	101	101	99
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	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	96	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	71	67	66
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	69	65	62	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	54	47	43	53	47	43	52	46	43	51	46	42	41

POLAR GRAPH



Maximum Candela = 595.83 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.)