

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RSL1-BK-35K-N-CL-12.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3300  
 [ECN] 3314  
 [TESTLAB] Tempo LLC  
 [ISSUEDATE] 12/8/2017 9:44:14 AM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] RSL1-BK-35K-N-CL-12  
 [LUMINAIRE] Black aluminum housing with clear lens and no baffle  
 [LAMP] Three (3) white LEDs (3500K)  
 [ELECTRICALS] 12.06 VAC, 0.04 A, 0.9303 PF, 30% ATHD

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	0.48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.08
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.02 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5705	4935	2185
55	6931	5570	1678
65	8110	6246	836
75	916	3686	476
85	294	343	529

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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>	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45
<b>2.5</b>	8.73	8.75	8.76	8.78	8.76	8.76	8.75	8.74	8.74	8.70
<b>5.0</b>	8.78	8.83	8.88	8.93	8.98	9.02	9.06	9.08	9.09	9.10
<b>7.5</b>	9.29	9.34	9.37	9.38	9.39	9.39	9.39	9.38	9.39	9.41
<b>10.0</b>	10.07	10.12	10.10	10.07	10.02	9.99	9.96	9.89	9.83	9.78
<b>12.5</b>	11.42	11.40	11.31	11.22	11.10	10.96	10.79	10.59	10.39	10.22
<b>15.0</b>	11.59	11.64	11.72	11.78	11.73	11.57	11.37	11.19	11.03	10.83
<b>17.5</b>	11.57	11.60	11.57	11.56	11.58	11.71	11.89	11.79	11.44	11.32
<b>20.0</b>	12.15	12.08	11.99	11.90	11.84	11.77	11.72	11.62	11.67	11.58
<b>22.5</b>	12.32	12.33	12.31	12.26	12.10	11.82	11.74	11.71	11.48	11.35
<b>25.0</b>	12.45	12.40	12.34	12.27	12.26	12.24	12.03	11.74	11.71	11.40
<b>27.5</b>	12.77	12.67	12.56	12.45	12.34	12.12	11.95	11.84	11.70	11.69
<b>30.0</b>	12.78	12.68	12.58	12.45	12.40	12.29	11.98	11.75	11.57	11.57
<b>32.5</b>	12.06	12.24	12.41	12.48	12.31	12.27	12.30	11.81	11.56	11.39
<b>35.0</b>	12.18	12.26	12.35	12.48	12.35	12.14	12.07	12.14	11.57	11.37
<b>37.5</b>	12.67	12.67	12.64	12.53	12.32	12.10	11.93	11.79	11.78	11.30
<b>40.0</b>	13.00	12.88	12.76	12.70	12.59	12.29	11.97	11.69	11.59	11.35
<b>42.5</b>	13.18	13.04	12.88	12.75	12.76	12.50	12.05	11.84	11.39	11.28
<b>45.0</b>	12.70	12.65	12.63	12.78	12.73	12.51	12.09	11.76	11.44	11.04
<b>47.5</b>	12.41	12.54	12.57	12.68	12.79	12.57	12.01	11.65	11.40	10.88
<b>50.0</b>	12.80	12.98	12.99	12.80	12.72	12.64	12.25	11.62	11.23	10.77
<b>52.5</b>	13.36	13.45	13.34	13.12	12.67	12.37	12.34	11.85	11.09	10.84
<b>55.0</b>	13.34	13.62	13.54	13.10	12.83	12.34	12.07	11.90	11.22	10.79
<b>57.5</b>	13.44	13.82	13.72	13.46	13.03	12.45	12.14	11.85	11.37	10.67
<b>60.0</b>	13.35	13.71	13.62	13.65	13.26	12.66	12.20	12.16	11.39	10.64
<b>62.5</b>	13.01	13.26	13.42	13.89	13.28	12.81	12.26	12.34	11.57	10.40
<b>65.0</b>	12.69	13.14	13.34	13.74	12.71	11.85	11.95	11.78	11.27	9.86
<b>67.5</b>	12.24	12.22	11.86	11.69	10.73	9.76	10.66	10.16	10.38	9.36
<b>70.0</b>	9.12	7.81	8.04	8.18	7.91	7.25	7.98	7.94	8.82	8.12
<b>72.5</b>	4.42	3.64	3.66	4.19	4.86	4.92	5.78	5.46	6.21	6.39
<b>75.0</b>	1.06	0.84	0.89	1.12	1.55	2.18	3.54	3.23	3.71	4.32
<b>77.5</b>	0.34	0.33	0.35	0.37	0.50	0.51	1.51	1.09	1.69	2.75
<b>80.0</b>	0.27	0.27	0.28	0.29	0.31	0.33	0.33	0.39	1.00	1.54
<b>82.5</b>	0.24	0.24	0.25	0.25	0.27	0.27	0.29	0.30	0.45	0.44
<b>85.0</b>	0.21	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25
<b>87.5</b>	0.19	0.20	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.22
<b>90.0</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>	<u>95</u>
<b>0.0</b>	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45
<b>2.5</b>	8.67	8.65	8.62	8.59	8.58	8.57	8.56	8.54	8.53	8.50
<b>5.0</b>	9.09	9.05	9.01	8.92	8.82	8.72	8.66	8.63	8.61	8.56
<b>7.5</b>	9.44	9.44	9.38	9.30	9.19	9.03	8.81	8.72	8.69	8.62
<b>10.0</b>	9.73	9.74	9.80	9.73	9.58	9.37	9.06	8.82	8.77	8.70
<b>12.5</b>	10.08	9.98	9.72	9.58	9.33	9.01	8.70	8.35	8.30	8.26
<b>15.0</b>	10.42	9.89	9.51	9.10	8.82	8.45	8.21	7.89	7.82	7.87
<b>17.5</b>	11.09	10.50	9.56	8.90	8.38	7.92	7.63	7.42	7.35	7.51
<b>20.0</b>	11.54	11.29	10.26	8.95	8.10	7.38	6.97	6.91	6.87	7.19
<b>22.5</b>	11.49	11.70	11.24	9.39	7.96	7.17	6.67	6.67	6.63	6.89
<b>25.0</b>	11.09	11.17	10.94	9.50	7.81	7.01	6.46	6.40	6.39	6.51
<b>27.5</b>	11.37	10.76	10.14	9.17	7.60	6.76	6.23	6.13	6.15	6.06
<b>30.0</b>	11.58	11.35	9.73	8.61	7.23	6.41	6.00	5.86	5.90	5.51

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**CANDELA TABULATION - (Cont.)**

32.5	11.42	11.67	10.38	8.04	6.84	6.14	5.81	5.68	5.65	5.28
35.0	11.26	11.34	11.18	8.03	6.92	6.08	5.66	5.49	5.40	5.07
37.5	11.14	11.16	11.22	8.21	7.00	6.04	5.51	5.29	5.14	4.87
40.0	10.98	10.94	11.20	8.25	6.77	5.94	5.39	5.08	4.88	4.64
42.5	10.79	10.69	10.98	8.56	6.39	5.84	5.32	4.96	4.67	4.37
45.0	10.74	10.39	10.69	9.72	6.41	5.72	5.27	4.85	4.46	4.11
47.5	10.64	10.21	10.31	10.33	6.57	5.52	5.20	4.74	4.25	3.86
50.0	10.50	10.12	9.93	10.32	6.87	5.27	5.10	4.63	4.03	3.61
52.5	10.41	10.13	9.65	10.02	7.46	5.26	4.89	3.97	3.45	3.12
55.0	10.43	10.07	9.46	9.45	8.10	5.49	4.62	3.29	2.87	2.64
57.5	10.43	9.77	9.25	8.88	8.35	5.78	4.31	2.62	2.29	2.19
60.0	10.08	9.50	9.00	8.41	8.23	6.17	4.06	1.94	1.71	1.76
62.5	9.91	9.27	8.70	8.12	7.84	6.31	4.19	1.86	1.41	1.56
65.0	9.80	9.07	8.11	7.60	7.31	6.27	4.40	1.77	1.11	1.35
67.5	9.23	8.20	7.32	6.99	6.78	6.15	4.61	1.69	0.80	1.13
70.0	8.00	7.10	6.48	6.37	6.22	5.92	4.81	1.58	0.50	0.88
72.5	6.54	5.98	5.57	5.60	5.50	5.24	4.25	1.51	0.46	0.74
75.0	4.98	4.66	4.23	4.45	4.62	4.44	3.56	1.45	0.43	0.61
77.5	3.32	3.15	2.89	3.24	3.70	3.63	2.84	1.39	0.38	0.48
80.0	1.73	1.56	1.52	2.00	2.78	2.82	2.09	1.36	0.35	0.35
82.5	0.31	0.37	0.70	1.28	2.08	2.15	1.59	1.06	0.29	0.29
85.0	0.27	0.30	0.51	0.90	1.46	1.50	1.12	0.76	0.24	0.24
87.5	0.23	0.24	0.35	0.54	0.82	0.84	0.64	0.46	0.18	0.19
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
0.0	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45
2.5	8.46	8.44	8.44	8.43	8.45	8.46	8.47	8.47	8.47	8.47
5.0	8.52	8.52	8.52	8.49	8.44	8.35	8.26	8.17	8.11	8.07
7.5	8.59	8.55	8.50	8.38	8.23	8.13	8.03	7.92	7.81	7.71
10.0	8.61	8.56	8.42	8.20	7.99	7.79	7.63	7.43	7.14	6.95
12.5	8.30	8.31	8.11	7.83	7.60	7.38	7.01	6.92	7.07	7.17
15.0	8.06	8.04	7.75	7.38	7.05	6.79	7.12	7.31	6.45	6.24
17.5	7.89	7.77	7.29	6.89	6.69	7.12	6.46	5.96	4.65	2.90
20.0	7.73	7.45	6.87	6.52	6.91	6.11	5.11	2.85	2.06	1.57
22.5	7.18	6.72	6.24	6.54	6.09	4.58	2.39	1.88	1.34	0.68
25.0	6.57	5.94	5.57	5.80	4.77	2.29	1.90	1.35	0.70	0.27
27.5	5.95	5.19	5.07	4.61	2.82	1.89	1.48	0.81	0.23	0.18
30.0	5.20	4.47	4.49	3.71	1.97	1.62	1.03	0.28	0.16	0.14
32.5	4.78	4.13	3.67	2.69	1.71	1.30	0.54	0.17	0.14	0.11
35.0	4.47	4.09	2.81	1.71	1.44	1.04	0.21	0.15	0.12	0.08
37.5	4.22	4.06	2.16	1.13	1.02	0.57	0.16	0.13	0.10	0.07
40.0	4.01	3.85	1.39	0.78	0.76	0.28	0.14	0.12	0.09	0.07
42.5	3.88	3.05	0.72	0.47	0.59	0.17	0.13	0.10	0.08	0.06
45.0	3.75	2.09	0.49	0.40	0.46	0.15	0.12	0.09	0.06	0.04
47.5	3.51	1.50	0.40	0.36	0.30	0.14	0.11	0.08	0.06	0.03
50.0	3.16	1.22	0.35	0.31	0.18	0.13	0.10	0.07	0.05	0.02
52.5	2.66	1.04	0.31	0.22	0.15	0.12	0.09	0.06	0.04	0.00
55.0	2.22	0.87	0.28	0.20	0.15	0.11	0.08	0.06	0.03	0.00
57.5	1.80	0.68	0.25	0.19	0.13	0.10	0.08	0.06	0.03	0.00
60.0	1.42	0.48	0.24	0.18	0.12	0.09	0.07	0.05	0.02	0.00
62.5	1.17	0.37	0.23	0.17	0.12	0.09	0.07	0.05	0.00	0.00
65.0	0.96	0.32	0.23	0.16	0.11	0.09	0.07	0.05	0.00	0.00
67.5	0.78	0.30	0.23	0.15	0.11	0.08	0.07	0.04	0.00	0.00

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	0.62	0.28	0.22	0.15	0.11	0.08	0.06	0.03	0.00	0.00
<b>72.5</b>	0.54	0.31	0.45	0.15	0.11	0.08	0.06	0.02	0.00	0.00
<b>75.0</b>	0.46	0.38	0.83	0.15	0.10	0.08	0.06	0.00	0.00	0.00
<b>77.5</b>	0.39	0.45	1.20	0.16	0.10	0.07	0.05	0.00	0.00	0.00
<b>80.0</b>	0.32	0.54	1.54	0.17	0.10	0.07	0.04	0.00	0.00	0.00
<b>82.5</b>	0.28	0.48	1.28	0.17	0.09	0.06	0.03	0.00	0.00	0.00
<b>85.0</b>	0.25	0.37	0.87	0.17	0.07	0.05	0.03	0.00	0.00	0.00
<b>87.5</b>	0.21	0.26	0.49	0.18	0.06	0.05	0.02	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<u><b>150</b></u>	<u><b>155</b></u>	<u><b>160</b></u>	<u><b>165</b></u>	<u><b>170</b></u>	<u><b>175</b></u>	<u><b>180</b></u>
<b>0.0</b>	8.45	8.45	8.45	8.45	8.45	8.45	8.45
<b>2.5</b>	8.43	8.41	8.39	8.37	8.36	8.35	8.34
<b>5.0</b>	8.06	8.05	8.02	8.01	8.00	7.99	7.99
<b>7.5</b>	7.61	7.48	7.39	7.28	7.21	7.16	7.14
<b>10.0</b>	6.85	6.81	6.78	6.71	6.63	6.53	6.43
<b>12.5</b>	6.98	6.87	6.73	6.55	5.93	5.51	5.27
<b>15.0</b>	5.39	4.07	3.44	2.89	2.35	1.93	1.72
<b>17.5</b>	2.15	1.46	1.05	0.75	0.53	0.40	0.32
<b>20.0</b>	0.97	0.46	0.31	0.27	0.25	0.23	0.21
<b>22.5</b>	0.35	0.26	0.23	0.19	0.18	0.17	0.16
<b>25.0</b>	0.21	0.18	0.15	0.14	0.13	0.12	0.11
<b>27.5</b>	0.15	0.13	0.11	0.09	0.09	0.08	0.08
<b>30.0</b>	0.11	0.09	0.08	0.07	0.06	0.05	0.05
<b>32.5</b>	0.08	0.07	0.06	0.05	0.04	0.04	0.03
<b>35.0</b>	0.07	0.06	0.04	0.03	0.03	0.03	0.03
<b>37.5</b>	0.06	0.04	0.03	0.02	0.02	0.02	0.02
<b>40.0</b>	0.05	0.03	0.02	0.00	0.00	0.00	0.00
<b>42.5</b>	0.03	0.02	0.00	0.00	0.00	0.00	0.00
<b>45.0</b>	0.03	0.00	0.00	0.00	0.00	0.00	0.00
<b>47.5</b>	0.02	0.00	0.00	0.00	0.00	0.00	0.00
<b>50.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>52.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>55.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>57.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>60.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>62.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>65.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>67.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>70.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>72.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>75.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>77.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>80.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	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	3.06	N.A.	12.00
0-30	6.06	N.A.	23.80
0-40	9.69	N.A.	38.10
0-60	18.61	N.A.	73.10
0-80	25.10	N.A.	98.60
0-90	25.45	N.A.	100.00
10-90	24.63	N.A.	96.80
20-40	6.63	N.A.	26.10
20-50	10.86	N.A.	42.70
40-70	13.51	N.A.	53.10
60-80	6.49	N.A.	25.50
70-80	1.90	N.A.	7.50
80-90	0.35	N.A.	1.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	25.45	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.82
10-20	2.24
20-30	3.00
30-40	3.63
40-50	4.22
50-60	4.69
60-70	4.60
70-80	1.90
80-90	0.35
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

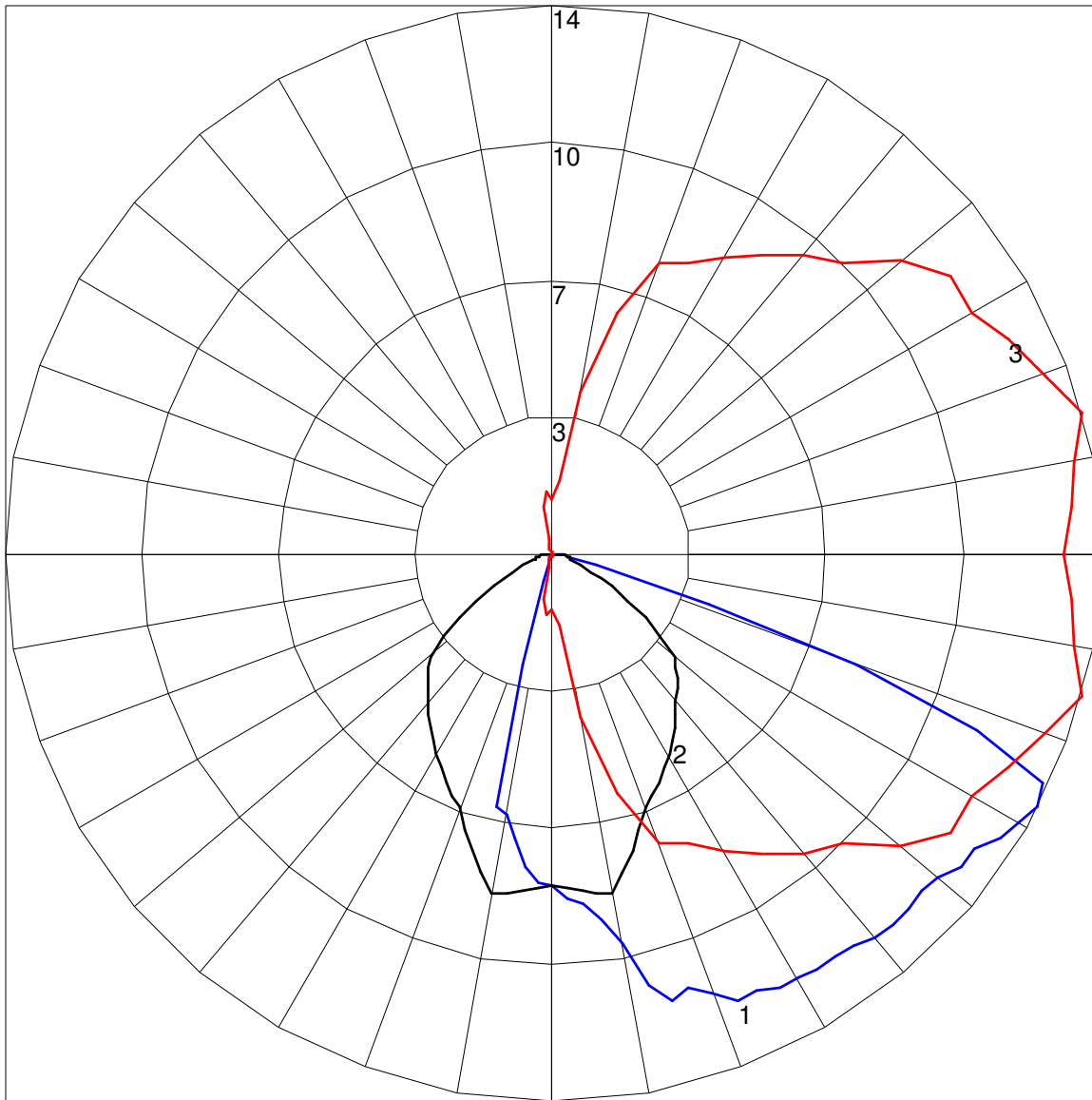
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RSL1-BK-35K-N-CL-12.IES**

**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	121	121	121	121	121	118	118	118	118	113	113	113	108	108	108	104	104	104	102
1	110	105	100	96		107	103	99	95	98	95	92	94	92	89	91	88	86	84
2	99	90	83	77		97	88	82	76	85	79	74	81	77	72	78	74	71	68
3	90	78	70	63		87	77	69	62	74	67	61	71	65	60	68	63	59	56
4	82	69	59	52		79	67	58	52	65	57	51	62	56	50	60	54	49	47
5	75	61	51	44		73	60	51	44	58	50	43	55	48	43	54	47	42	40
6	69	55	45	38		67	54	44	38	52	44	38	50	43	37	48	42	37	35
7	64	49	40	33		62	48	40	33	47	39	33	45	38	33	44	37	32	30
8	59	45	36	30		57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27		54	40	32	26	39	32	26	38	31	26	37	31	26	24
10	52	38	30	24		50	37	29	24	36	29	24	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 13.89 Located At Horizontal Angle = 15, Vertical Angle = 62.5

# 1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)