

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P289643

Luminaire Tested: **8SSRK-TB-50-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-TB-50-L840-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4968.9 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

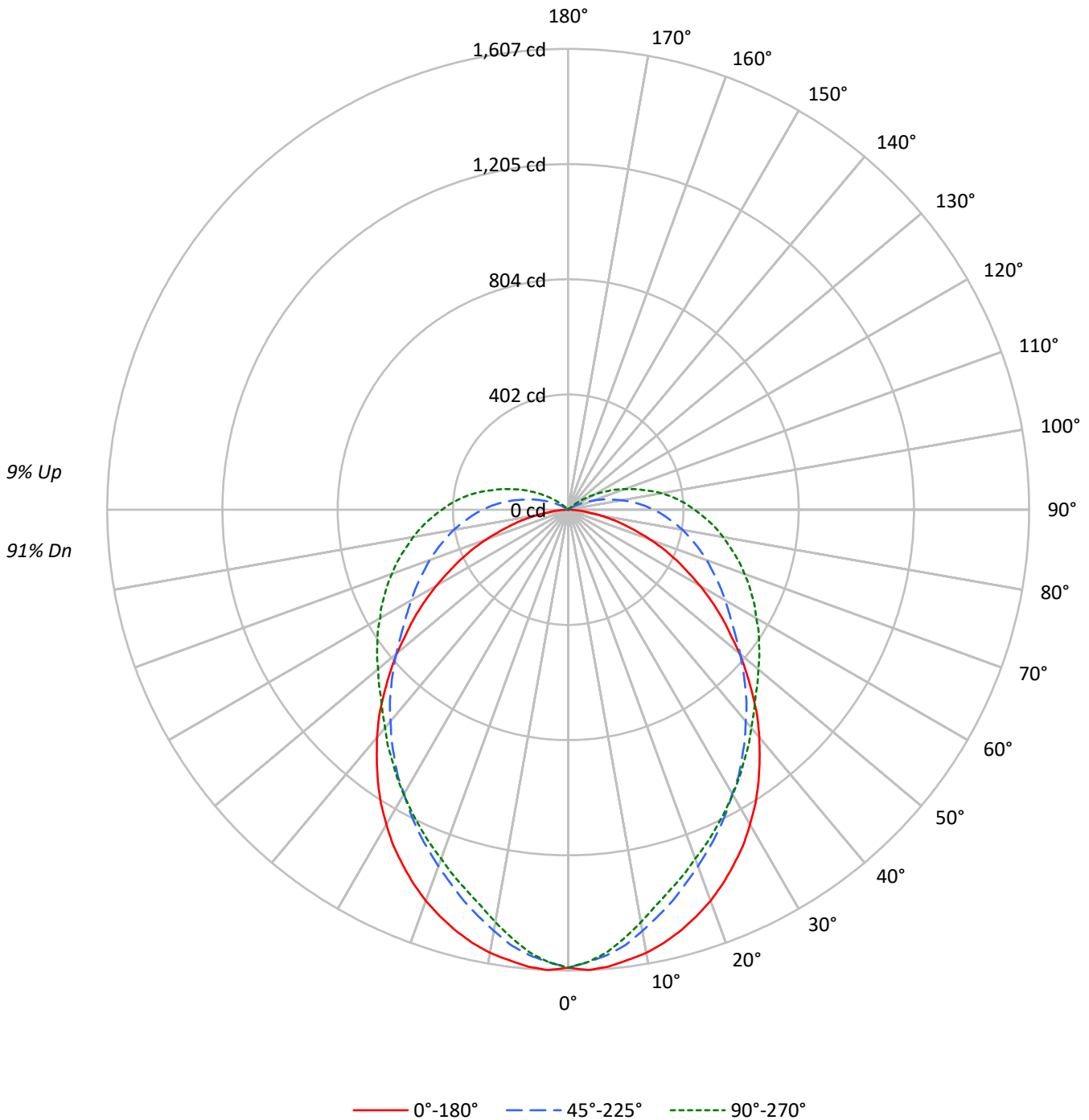
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	51560	51560	51560
5°	51743	40468	37194
10°	51262	32566	28090
15°	50493	26768	22153
20°	49483	22336	18120
25°	48181	18952	15197
30°	46692	16150	12919
35°	44942	13920	11084
40°	42921	11991	9610
45°	40606	10368	8428
50°	38211	8952	7535
55°	35744	7777	6812
60°	33074	6880	6166
65°	30346	6145	5637
70°	27175	5497	5148
75°	23292	4917	4708
80°	18826	4396	4304
85°	12778	3866	3929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	3.0
10°-20°	402.9	8.1
20°-30°	582.9	11.7
30°-40°	678.1	13.6
40°-50°	690.2	13.9
50°-60°	642.2	12.9
60°-70°	559.2	11.3
70°-80°	455.2	9.2
80°-90°	344.9	6.9
90°-100°	239.1	4.8
100°-110°	140.5	2.8
110°-120°	65.9	1.3
120°-130°	18.8	0.4
130°-140°	1.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1133.7	22.8
0°-40°	1811.8	36.5
0°-60°	3144.2	63.3
0°-90°	4503.5	90.6
90°-120°	445.6	9.0
90°-150°	465.4	9.4
90°-180°	465.0	9.4
0°-180°	4968.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1599	1587	1559	1559	1549	152
15°	1519	1478	1411	1386	1373	428
25°	1365	1305	1237	1227	1222	629
35°	1157	1096	1056	1066	1069	723
45°	908	872	872	908	923	701
55°	654	651	699	782	812	584
65°	415	450	571	671	707	411
75°	201	294	458	563	601	215
85°	43	184	350	460	495	49
90°	0	133	297	405	440	2
95°	0	86	244	352	387	0
105°	0	20	138	234	266	0
115°	0	0	55	128	156	0
125°	0	0	2	43	63	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	2	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1606.8	1599.2	1579.1	1586.7	1579.1
5°	1599.2	1586.7	1559.0	1559.0	1549.0
7.5°	1584.2	1569.1	1531.3	1518.8	1506.2
10°	1569.1	1546.4	1491.1	1476.0	1460.9
12.5°	1546.4	1513.7	1450.9	1428.3	1413.2
15°	1518.8	1478.5	1410.7	1385.5	1372.9
17.5°	1486.1	1440.8	1365.4	1345.3	1335.2
20°	1450.9	1398.1	1322.6	1305.0	1295.0
22.5°	1410.7	1350.3	1279.9	1267.3	1259.8
25°	1365.4	1305.0	1237.1	1227.1	1222.1
27.5°	1320.1	1254.8	1191.9	1186.9	1184.3
30°	1267.3	1204.5	1144.1	1146.6	1146.6
32.5°	1214.5	1151.7	1103.9	1108.9	1108.9
35°	1156.7	1096.3	1056.1	1066.2	1068.7
37.5°	1096.3	1043.5	1010.8	1025.9	1033.5
40°	1036.0	988.2	963.1	985.7	993.2
42.5°	975.6	930.4	920.3	948.0	958.0
45°	907.7	872.5	872.5	907.7	922.8
47.5°	842.4	819.7	827.3	872.5	895.2
50°	779.5	761.9	782.0	839.9	865.0
52.5°	711.6	706.6	739.3	809.7	839.9
55°	653.8	651.3	699.0	782.0	812.2
57.5°	590.9	598.5	663.8	754.4	787.0
60°	530.6	545.7	631.1	726.7	756.9
62.5°	470.2	500.4	601.0	699.0	734.2
65°	414.9	450.1	570.8	671.4	706.6
67.5°	359.6	404.8	540.6	646.2	681.4
70°	304.3	364.6	513.0	618.6	653.8
72.5°	248.9	329.4	485.3	590.9	628.6
75°	201.2	294.2	457.6	563.3	601.0
77.5°	155.9	266.5	430.0	540.6	573.3
80°	113.2	236.4	404.8	513.0	548.2
82.5°	72.9	211.2	377.2	485.3	523.0
85°	42.7	183.6	349.5	460.2	495.4
87.5°	17.6	155.9	324.4	432.5	467.7
90°	0.0	133.3	296.7	404.8	440.0
92.5°	0.0	110.6	271.6	379.7	414.9
95°	0.0	85.5	243.9	352.0	387.2
97.5°	0.0	65.4	216.2	324.4	359.6
100°	0.0	50.3	188.6	291.7	329.4
102.5°	0.0	35.2	160.9	261.5	299.2
105°	0.0	20.1	138.3	233.9	266.5
107.5°	0.0	10.1	115.7	206.2	238.9
110°	0.0	2.5	93.0	178.5	208.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	72.9	153.4	183.6
115°	0.0	0.0	55.3	128.2	155.9
117.5°	0.0	0.0	37.7	105.6	130.8
120°	0.0	0.0	22.6	83.0	105.6
122.5°	0.0	0.0	10.1	62.9	83.0
125°	0.0	0.0	2.5	42.7	62.9
127.5°	0.0	0.0	0.0	25.1	42.7
130°	0.0	0.0	0.0	12.6	25.1
132.5°	0.0	0.0	0.0	2.5	10.1
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	2.5	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)