

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-L940-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-L940-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4203.7 lumens
Efficiency: N/A
Efficacy: 122.9 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

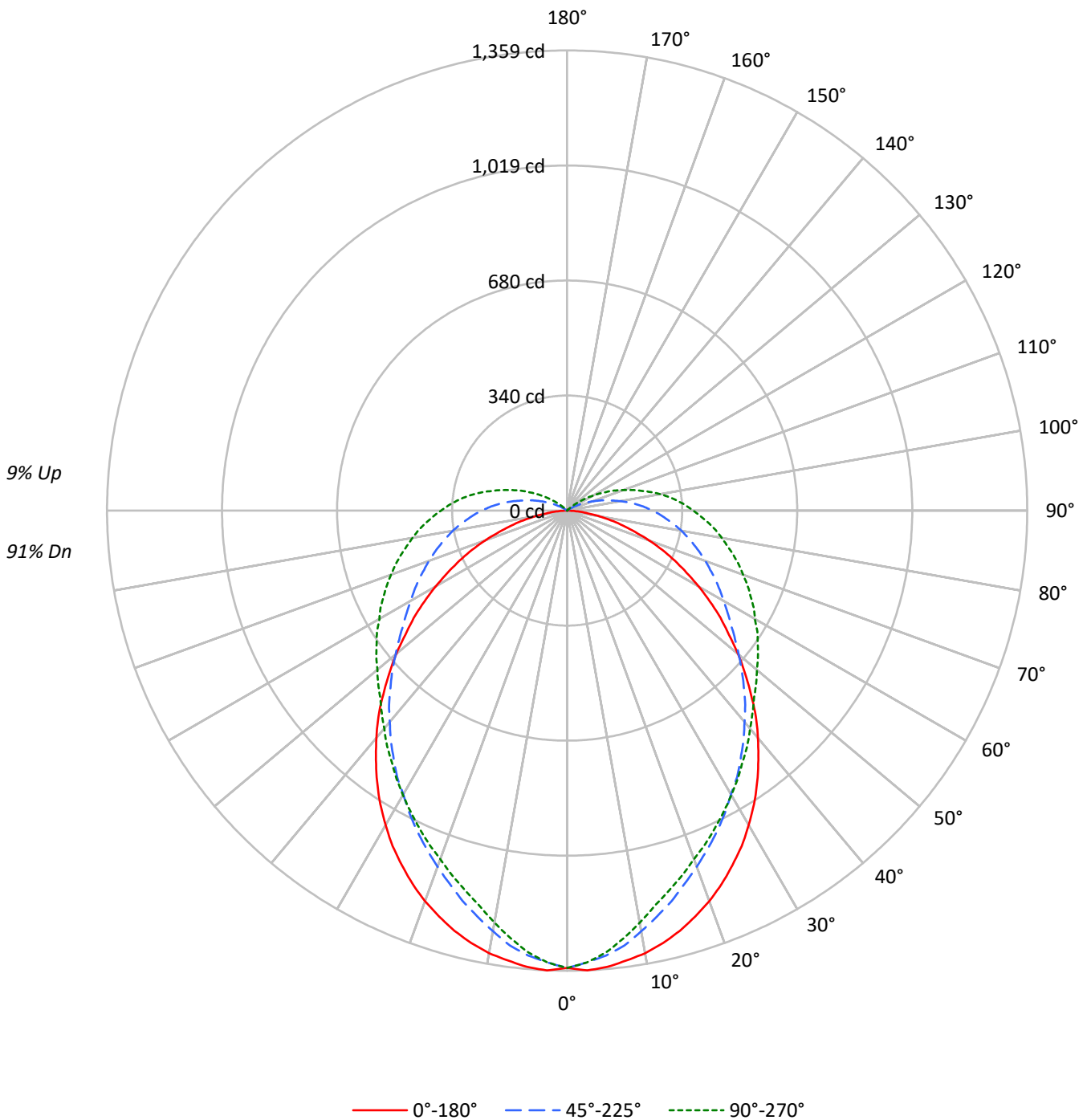
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	43619	43619	43619
5°	43777	34236	31465
10°	43366	27552	23766
15°	42717	22645	18742
20°	41861	18898	15330
25°	40760	16033	12857
30°	39504	13663	10929
35°	38022	11777	9377
40°	36309	10145	8131
45°	34357	8772	7130
50°	32328	7574	6375
55°	30239	6579	5763
60°	27982	5821	5216
65°	25672	5199	4769
70°	22986	4650	4355
75°	19703	4161	3982
80°	15916	3719	3641
85°	10833	3271	3324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	3.0
10°-20°	340.9	8.1
20°-30°	493.2	11.7
30°-40°	573.7	13.6
40°-50°	583.9	13.9
50°-60°	543.3	12.9
60°-70°	473.1	11.3
70°-80°	385.1	9.2
80°-90°	291.8	6.9
90°-100°	202.3	4.8
100°-110°	118.9	2.8
110°-120°	55.8	1.3
120°-130°	15.9	0.4
130°-140°	0.9	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°	959.1	22.8
0°-40°	1532.7	36.5
0°-60°	2660.0	63.3
0°-90°	3810.0	90.6
90°-120°	376.9	9.0
90°-150°	393.7	9.4
90°-180°	394.0	9.4
0°-180°	4203.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1353	1342	1319	1319	1310	128
15°	1285	1251	1193	1172	1162	362
25°	1155	1104	1047	1038	1034	532
35°	979	928	894	902	904	611
45°	768	738	738	768	781	593
55°	553	551	591	662	687	494
65°	351	381	483	568	598	348
75°	170	249	387	476	508	182
85°	36	155	296	389	419	42
90°	0	113	251	342	372	2
95°	0	72	206	298	328	0
105°	0	17	117	198	226	0
115°	0	0	47	108	132	0
125°	0	0	2	36	53	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°	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1359.3	1353.0	1335.9	1342.3	1335.9
5°	1353.0	1342.3	1318.9	1318.9	1310.4
7.5°	1340.2	1327.4	1295.5	1284.9	1274.2
10°	1327.4	1308.3	1261.5	1248.7	1236.0
12.5°	1308.3	1280.6	1227.4	1208.3	1195.5
15°	1284.9	1250.8	1193.4	1172.1	1161.5
17.5°	1257.2	1218.9	1155.1	1138.1	1129.6
20°	1227.4	1182.8	1119.0	1104.1	1095.6
22.5°	1193.4	1142.4	1082.8	1072.2	1065.8
25°	1155.1	1104.1	1046.6	1038.1	1033.9
27.5°	1116.8	1061.5	1008.3	1004.1	1002.0
30°	1072.2	1019.0	967.9	970.0	970.0
32.5°	1027.5	974.3	933.9	938.1	938.1
35°	978.6	927.5	893.5	902.0	904.1
37.5°	927.5	882.8	855.2	867.9	874.3
40°	876.4	836.0	814.8	833.9	840.3
42.5°	825.4	787.1	778.6	802.0	810.5
45°	768.0	738.2	738.2	768.0	780.7
47.5°	712.6	693.5	699.9	738.2	757.3
50°	659.5	644.6	661.6	710.5	731.8
52.5°	602.0	597.8	625.4	685.0	710.5
55°	553.1	551.0	591.4	661.6	687.1
57.5°	499.9	506.3	561.6	638.2	665.8
60°	448.9	461.6	534.0	614.8	640.3
62.5°	397.8	423.3	508.4	591.4	621.2
65°	351.0	380.8	482.9	568.0	597.8
67.5°	304.2	342.5	457.4	546.7	576.5
70°	257.4	308.5	434.0	523.3	553.1
72.5°	210.6	278.7	410.6	499.9	531.8
75°	170.2	248.9	387.2	476.5	508.4
77.5°	131.9	225.5	363.8	457.4	485.0
80°	95.7	200.0	342.5	434.0	463.7
82.5°	61.7	178.7	319.1	410.6	442.5
85°	36.2	155.3	295.7	389.3	419.1
87.5°	14.9	131.9	274.4	365.9	395.7
90°	0.0	112.7	251.0	342.5	372.3
92.5°	0.0	93.6	229.7	321.2	351.0
95°	0.0	72.3	206.3	297.8	327.6
97.5°	0.0	55.3	182.9	274.4	304.2
100°	0.0	42.5	159.5	246.8	278.7
102.5°	0.0	29.8	136.1	221.2	253.1
105°	0.0	17.0	117.0	197.8	225.5
107.5°	0.0	8.5	97.9	174.4	202.1
110°	0.0	2.1	78.7	151.0	176.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	61.7	129.8	155.3
115°	0.0	0.0	46.8	108.5	131.9
117.5°	0.0	0.0	31.9	89.3	110.6
120°	0.0	0.0	19.1	70.2	89.3
122.5°	0.0	0.0	8.5	53.2	70.2
125°	0.0	0.0	2.1	36.2	53.2
127.5°	0.0	0.0	0.0	21.3	36.2
130°	0.0	0.0	0.0	10.6	21.3
132.5°	0.0	0.0	0.0	2.1	8.5
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°	2.1	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)