

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-L950-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-L950-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4477.1 lumens
Efficiency: N/A
Efficacy: 130.9 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

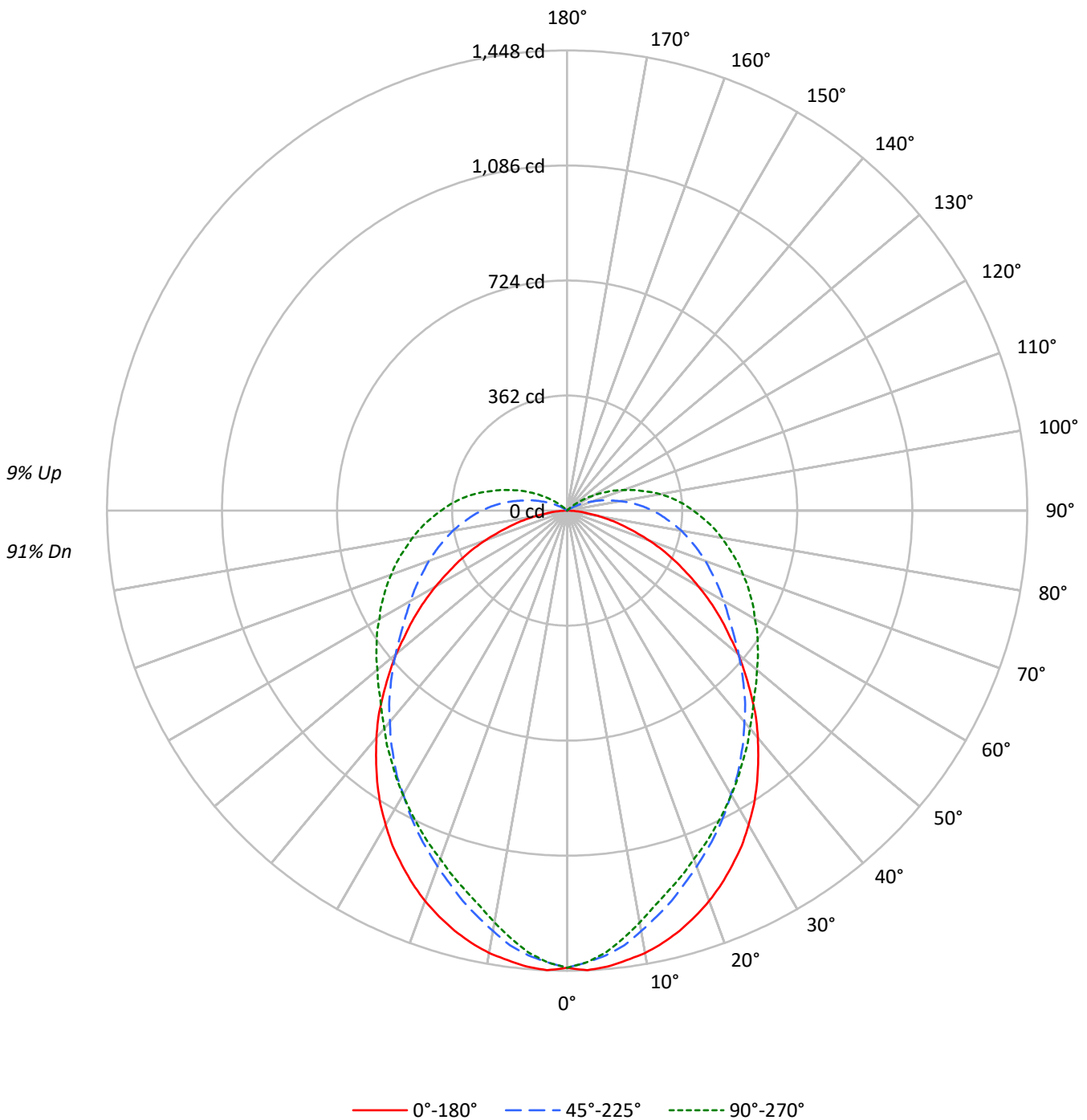
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	46458	46458	46458
5°	46622	36463	33511
10°	46185	29343	25310
15°	45492	24117	19960
20°	44582	20125	16326
25°	43410	17077	13692
30°	42072	14551	11640
35°	40493	12541	9987
40°	38670	10803	8659
45°	36589	9342	7594
50°	34426	8066	6789
55°	32207	7007	6138
60°	29796	6199	5555
65°	27340	5537	5078
70°	24478	4952	4639
75°	20976	4430	4242
80°	16964	3962	3878
85°	11521	3483	3539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	3.0
10°-20°	363.0	8.1
20°-30°	525.2	11.7
30°-40°	611.0	13.6
40°-50°	621.9	13.9
50°-60°	578.7	12.9
60°-70°	503.9	11.3
70°-80°	410.2	9.2
80°-90°	310.7	6.9
90°-100°	215.5	4.8
100°-110°	126.6	2.8
110°-120°	59.4	1.3
120°-130°	16.9	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°	1021.4	22.8
0°-40°	1632.4	36.5
0°-60°	2832.9	63.3
0°-90°	4057.7	90.6
90°-120°	401.5	9.0
90°-150°	419.3	9.4
90°-180°	419.0	9.4
0°-180°	4477.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1439	1439	1439	1439	1439	
5°	1441	1430	1405	1405	1396	137
15°	1368	1332	1271	1248	1237	385
25°	1230	1176	1115	1106	1101	567
35°	1042	988	952	961	963	651
45°	818	786	786	818	832	631
55°	589	587	630	705	732	526
65°	374	406	514	605	637	370
75°	181	265	412	508	542	193
85°	38	165	315	415	446	44
90°	0	120	267	365	396	2
95°	0	77	220	317	349	0
105°	0	18	125	211	240	0
115°	0	0	50	116	140	0
125°	0	0	2	38	57	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°	1438.7	1438.7	1438.7	1438.7	1438.7
2.5°	1447.7	1440.9	1422.8	1429.6	1422.8
5°	1440.9	1429.6	1404.7	1404.7	1395.6
7.5°	1427.3	1413.7	1379.7	1368.4	1357.1
10°	1413.7	1393.3	1343.5	1329.9	1316.3
12.5°	1393.3	1363.9	1307.2	1286.9	1273.3
15°	1368.4	1332.2	1271.0	1248.3	1237.0
17.5°	1339.0	1298.2	1230.2	1212.1	1203.0
20°	1307.2	1259.7	1191.7	1175.8	1166.8
22.5°	1271.0	1216.6	1153.2	1141.9	1135.1
25°	1230.2	1175.8	1114.7	1105.6	1101.1
27.5°	1189.4	1130.5	1073.9	1069.4	1067.1
30°	1141.9	1085.2	1030.8	1033.1	1033.1
32.5°	1094.3	1037.6	994.6	999.1	999.1
35°	1042.2	987.8	951.5	960.6	962.9
37.5°	987.8	940.2	910.8	924.4	931.2
40°	933.4	890.4	867.7	888.1	894.9
42.5°	879.0	838.3	829.2	854.1	863.2
45°	817.9	786.2	786.2	817.9	831.5
47.5°	759.0	738.6	745.4	786.2	806.6
50°	702.3	686.5	704.6	756.7	779.4
52.5°	641.2	636.6	666.1	729.5	756.7
55°	589.1	586.8	629.8	704.6	731.8
57.5°	532.4	539.2	598.1	679.7	709.1
60°	478.0	491.6	568.7	654.8	681.9
62.5°	423.7	450.9	541.5	629.8	661.6
65°	373.8	405.5	514.3	604.9	636.6
67.5°	324.0	364.8	487.1	582.3	614.0
70°	274.1	328.5	462.2	557.3	589.1
72.5°	224.3	296.8	437.3	532.4	566.4
75°	181.2	265.1	412.3	507.5	541.5
77.5°	140.5	240.2	387.4	487.1	516.6
80°	102.0	213.0	364.8	462.2	493.9
82.5°	65.7	190.3	339.8	437.3	471.2
85°	38.5	165.4	314.9	414.6	446.3
87.5°	15.9	140.5	292.3	389.7	421.4
90°	0.0	120.1	267.3	364.8	396.5
92.5°	0.0	99.7	244.7	342.1	373.8
95°	0.0	77.0	219.8	317.2	348.9
97.5°	0.0	58.9	194.8	292.3	324.0
100°	0.0	45.3	169.9	262.8	296.8
102.5°	0.0	31.7	145.0	235.6	269.6
105°	0.0	18.1	124.6	210.7	240.2
107.5°	0.0	9.1	104.2	185.8	215.2
110°	0.0	2.3	83.8	160.9	188.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	65.7	138.2	165.4
115°	0.0	0.0	49.8	115.5	140.5
117.5°	0.0	0.0	34.0	95.2	117.8
120°	0.0	0.0	20.4	74.8	95.2
122.5°	0.0	0.0	9.1	56.6	74.8
125°	0.0	0.0	2.3	38.5	56.6
127.5°	0.0	0.0	0.0	22.7	38.5
130°	0.0	0.0	0.0	11.3	22.7
132.5°	0.0	0.0	0.0	2.3	9.1
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°	2.3	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)