

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: P289795

Luminaire Tested: **8SSRK-TS-60-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-TS-60-L850-CD1-U
Description: 6000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5689.9 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

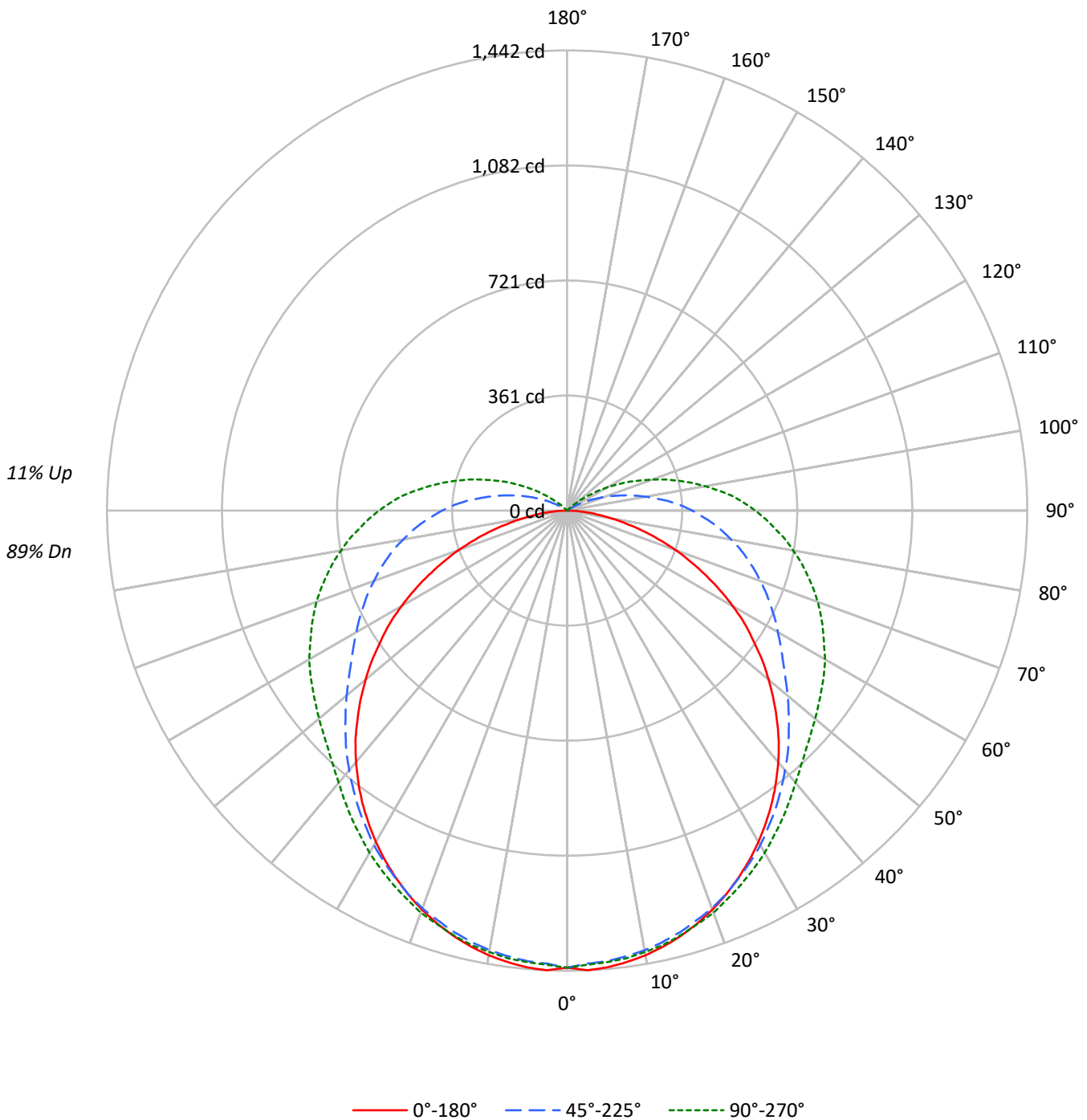
Input Watts (W): 41.3831
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89								
1	103	97	91	87	99	94	89	84	87	83	79	81	78	75	76	73	71	68								
2	93	83	75	68	89	80	73	67	75	68	63	70	65	60	65	61	57	54								
3	84	72	63	56	80	69	61	54	65	58	52	61	55	50	57	52	47	45								
4	76	63	54	46	73	61	52	45	57	50	44	53	47	42	50	45	40	37								
5	70	56	47	39	67	54	45	39	51	43	37	48	41	36	45	39	34	32								
6	65	50	41	34	62	49	40	34	46	38	32	43	36	31	41	35	30	28								
7	60	46	36	30	57	44	36	29	42	34	28	39	33	28	37	31	27	24								
8	56	41	33	27	53	40	32	26	38	31	25	36	29	25	34	28	24	22								
9	52	38	29	24	50	37	29	23	35	28	23	33	27	22	31	26	21	19								
10	49	35	27	21	47	34	26	21	32	25	21	31	24	20	29	23	19	17								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46248	46248	46248
5°	46482	36790	34121
10°	46231	30548	27010
15°	45858	25948	22223
20°	45374	22405	18761
25°	44797	19482	16064
30°	44172	17092	13952
35°	43466	15019	12212
40°	42622	13225	10775
45°	41604	11669	9668
50°	40417	10324	8839
55°	38986	9189	8167
60°	37369	8316	7600
65°	35042	7574	7058
70°	32310	6900	6581
75°	28466	6282	6103
80°	23599	5671	5646
85°	17326	5069	5190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	2.4
10°-20°	388.2	6.8
20°-30°	589.5	10.4
30°-40°	716.6	12.6
40°-50°	764.7	13.4
50°-60°	750.0	13.2
60°-70°	685.2	12.0
70°-80°	581.5	10.2
80°-90°	452.5	8.0
90°-100°	319.1	5.6
100°-110°	189.7	3.3
110°-120°	89.8	1.6
120°-130°	26.0	0.5
130°-140°	1.5	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°	1113.2	19.6
0°-40°	1829.8	32.2
0°-60°	3344.5	58.8
0°-90°	5063.8	89.0
90°-120°	598.5	10.5
90°-150°	626.0	11.0
90°-180°	626.0	11.0
0°-180°	5689.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1437	1431	1417	1426	1421	136
15°	1379	1376	1368	1379	1377	389
25°	1270	1270	1272	1292	1292	585
35°	1119	1125	1140	1168	1177	699
45°	930	946	982	1034	1058	717
55°	713	744	826	934	974	639
65°	479	541	704	838	885	475
75°	246	373	585	730	779	261
85°	58	238	458	604	654	65
90°	4	176	392	539	589	6
95°	4	118	323	466	521	4
105°	4	32	184	313	360	4
115°	3	3	75	172	212	3
125°	2	2	4	57	84	2
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°	0	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°	1432.2	1432.2	1432.2	1432.2	1432.2
2.5°	1441.8	1436.6	1421.0	1429.2	1424.7
5°	1436.6	1431.4	1417.3	1425.5	1421.0
7.5°	1427.0	1423.3	1409.1	1418.1	1415.1
10°	1415.1	1411.4	1398.7	1409.1	1404.7
12.5°	1398.7	1395.0	1384.6	1395.0	1393.5
15°	1379.4	1376.5	1367.5	1379.4	1377.2
17.5°	1356.4	1354.2	1346.7	1361.6	1358.6
20°	1330.4	1328.9	1326.7	1340.1	1340.8
22.5°	1302.2	1302.2	1300.7	1315.5	1316.3
25°	1269.5	1270.2	1271.7	1291.8	1291.8
27.5°	1236.1	1238.3	1242.0	1261.3	1265.8
30°	1198.9	1202.6	1210.8	1231.6	1238.3
32.5°	1159.6	1165.5	1174.4	1200.4	1207.1
35°	1118.7	1124.6	1139.5	1167.7	1177.4
37.5°	1074.9	1081.6	1100.9	1132.8	1145.4
40°	1028.8	1036.2	1062.2	1102.4	1113.5
42.5°	982.0	992.4	1024.4	1067.4	1084.5
45°	930.0	945.6	982.0	1034.0	1058.5
47.5°	878.0	896.6	941.9	1005.8	1035.5
50°	824.5	845.3	901.8	980.5	1014.7
52.5°	771.1	794.1	862.4	956.8	993.9
55°	713.1	743.6	826.0	933.7	973.8
57.5°	659.6	692.3	793.3	910.7	954.5
60°	599.5	641.1	762.9	886.9	933.0
62.5°	540.0	589.8	733.9	862.4	907.7
65°	479.1	540.8	703.5	837.9	884.7
67.5°	419.0	491.0	675.2	812.7	860.9
70°	361.8	447.9	644.0	786.7	835.7
72.5°	301.6	410.0	615.1	759.2	808.2
75°	245.9	372.9	584.6	729.5	779.2
77.5°	189.4	338.0	554.9	699.7	751.0
80°	141.9	305.3	522.2	668.5	719.1
82.5°	96.6	272.6	490.3	636.6	689.3
85°	57.9	237.7	458.3	603.9	654.4
87.5°	26.0	207.2	423.4	570.5	623.2
90°	4.5	176.1	391.5	538.6	589.1
92.5°	5.2	147.8	358.8	504.4	554.9
95°	4.5	118.1	323.1	466.5	520.7
97.5°	4.5	92.9	285.2	429.4	479.1
100°	3.7	69.1	248.8	390.0	439.0
102.5°	3.7	49.0	216.2	351.4	400.4
105°	3.7	31.9	184.2	312.7	360.3
107.5°	3.7	17.8	153.0	275.6	323.9
110°	3.7	6.7	124.8	242.2	282.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	3.0	97.3	205.0	246.6
115°	3.0	3.0	75.0	171.6	212.4
117.5°	3.0	2.2	51.3	140.4	177.5
120°	3.0	2.2	31.9	112.2	144.1
122.5°	2.2	1.5	15.6	83.2	115.1
125°	2.2	1.5	3.7	57.2	83.9
127.5°	2.2	0.7	0.0	34.2	57.9
130°	1.5	0.7	0.0	16.3	34.2
132.5°	1.5	0.7	0.0	3.0	14.9
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°	0.0	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)