

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: P290337

Luminaire Tested: **8SSRK-SLC-10-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLC-10-L835-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10969.8 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

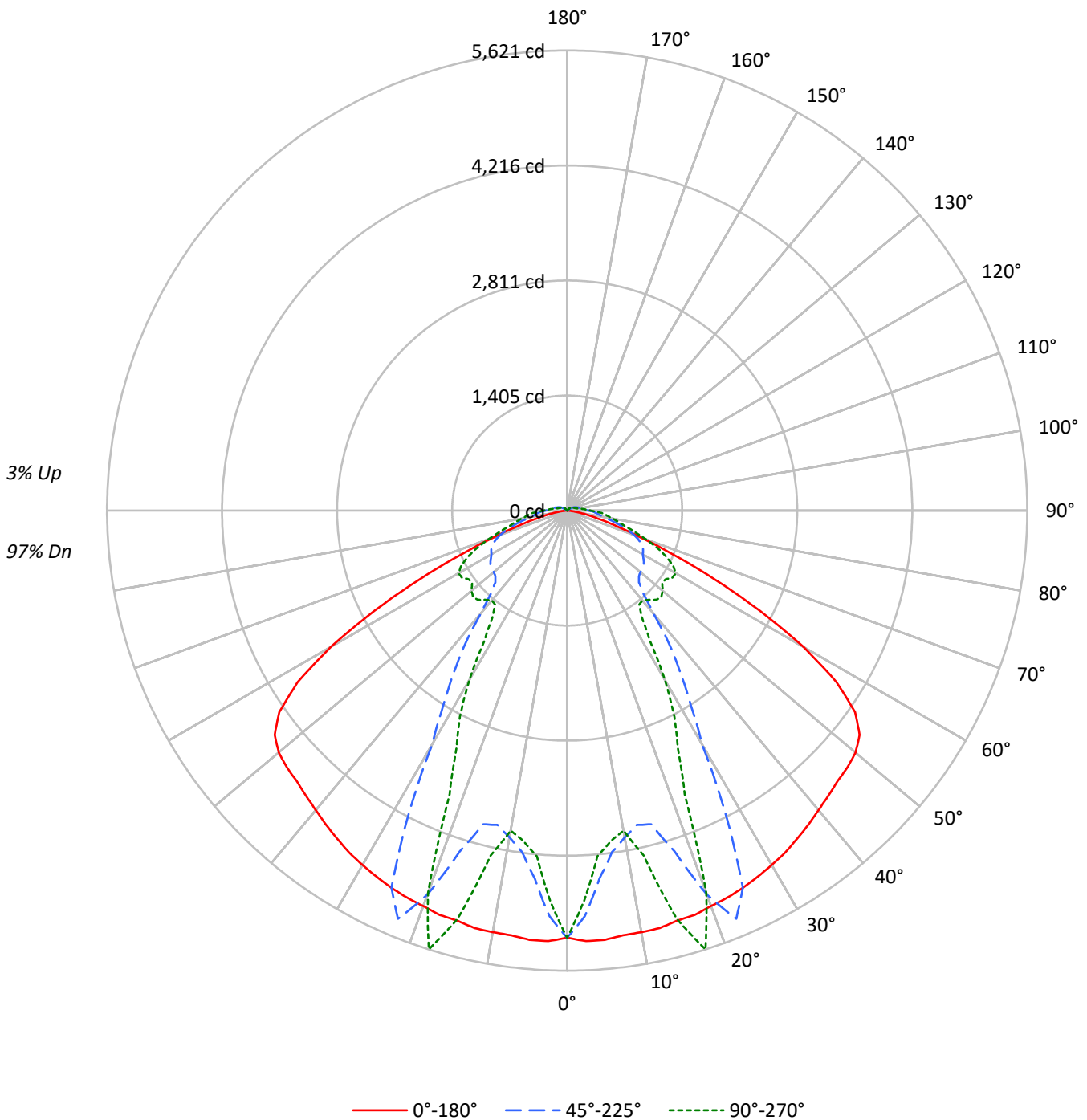
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97	
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	87	85	83	81	
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	77	74	71	69	
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	69	65	61	59	
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	62	57	53	51	
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	57	51	47	45	
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	52	46	42	40	
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	48	42	38	36	
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	44	38	34	32	
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	41	35	31	29	
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	38	33	29	27	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	168461	168461	168461
5°	170305	117167	101820
10°	170836	88520	76305
15°	172379	75255	83193
20°	175335	84337	69535
25°	179335	77800	39719
30°	184175	46592	26905
35°	190178	31732	16469
40°	197862	20410	13847
45°	209043	14763	14077
50°	225402	13380	13277
55°	234646	12745	12279
60°	207883	11634	12476
65°	145528	10948	10673
70°	84578	9308	8027
75°	48077	7031	5710
80°	27308	4963	4416
85°	13197	3984	3615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.4	4.0
10°-20°	1301.6	11.9
20°-30°	1915.9	17.5
30°-40°	1871.7	17.1
40°-50°	1551.6	14.1
50°-60°	1424.5	13.0
60°-70°	1128.8	10.3
70°-80°	626.8	5.7
80°-90°	332.0	3.0
90°-100°	174.6	1.6
100°-110°	105.1	1.0
110°-120°	60.0	0.5
120°-130°	33.1	0.3
130°-140°	10.5	0.1
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3651.0	33.3
0°-40°	5522.6	50.3
0°-60°	8498.7	77.5
0°-90°	10586.3	96.5
90°-120°	339.6	3.1
90°-150°	383.5	3.5
90°-180°	384.0	3.5
0°-180°	10969.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5217	5217	5217	5217	5217	
5°	5264	4968	4514	4321	4240	500
15°	5185	4141	3966	4857	5156	1471
25°	5082	3954	5078	3462	3194	2348
35°	4895	4720	2408	1720	1588	3071
45°	4673	2134	1242	1418	1541	3624
55°	4292	951	1146	1372	1464	3727
65°	1990	618	1017	1290	1338	2014
75°	415	376	654	698	729	492
85°	44	185	360	437	456	61
90°	1	135	263	288	286	2
95°	2	107	205	213	203	2
105°	2	71	143	124	112	3
115°	2	9	93	88	82	2
125°	2	2	43	69	67	2
135°	2	2	2	29	37	2
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°	5216.9	5216.9	5216.9	5216.9	5216.9
2.5°	5263.5	5169.1	4959.6	4817.5	4769.7
5°	5263.5	4968.2	4513.7	4321.3	4240.4
7.5°	5231.6	4713.4	4208.6	4125.3	4072.6
10°	5229.2	4441.4	4053.0	3983.1	3968.4
12.5°	5223.1	4290.7	3932.9	4180.4	4314.0
15°	5185.1	4141.2	3966.0	4856.7	5155.7
17.5°	5178.9	4029.7	4367.9	5495.1	5621.2
20°	5141.0	3941.5	4993.9	5414.2	4969.4
22.5°	5116.5	3880.2	5397.0	4355.6	3750.4
25°	5082.2	3953.7	5078.5	3462.4	3194.1
27.5°	5042.9	4190.2	4209.8	3014.0	2836.4
30°	4998.8	4560.2	3300.7	2634.2	2387.9
32.5°	4954.7	4831.0	2809.4	2162.5	1873.3
35°	4894.7	4719.5	2407.5	1720.2	1587.9
37.5°	4838.3	4204.9	2041.2	1485.0	1447.0
40°	4775.9	3387.7	1639.3	1391.8	1431.0
42.5°	4723.2	2685.7	1377.1	1382.0	1478.8
45°	4672.9	2134.3	1242.4	1417.6	1541.3
47.5°	4643.5	1696.9	1188.5	1460.4	1559.7
50°	4598.2	1360.0	1168.8	1469.0	1524.2
52.5°	4502.6	1121.1	1162.7	1423.7	1461.7
55°	4291.9	950.8	1145.6	1372.2	1464.1
57.5°	3903.5	845.4	1106.4	1383.3	1524.2
60°	3335.0	763.3	1067.2	1418.8	1531.5
62.5°	2653.8	688.6	1046.3	1389.4	1459.2
65°	1989.7	617.5	1016.9	1290.1	1337.9
67.5°	1393.1	556.2	950.8	1166.4	1192.1
70°	947.1	497.4	868.7	1008.3	1019.4
72.5°	637.1	438.6	767.0	845.4	862.5
75°	415.3	376.1	654.3	698.4	729.0
77.5°	264.6	319.8	542.8	599.1	638.3
80°	164.2	264.6	457.0	537.9	562.4
82.5°	91.9	220.5	395.7	480.3	493.8
85°	44.1	185.0	360.2	437.4	455.8
87.5°	11.0	156.8	317.3	362.7	362.7
90°	1.2	134.8	263.4	287.9	285.5
92.5°	1.2	118.8	229.1	245.0	240.1
95°	2.5	106.6	204.6	213.2	203.4
97.5°	2.5	100.5	188.7	182.6	167.9
100°	2.5	93.1	171.5	155.6	139.7
102.5°	2.5	83.3	156.8	137.2	123.7
105°	2.5	71.1	143.3	123.7	111.5
107.5°	2.5	56.4	128.6	112.7	102.9
110°	2.5	40.4	115.2	104.1	96.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	24.5	104.1	96.8	90.7
115°	2.5	8.6	93.1	88.2	82.1
117.5°	2.5	3.7	82.1	84.5	77.2
120°	2.5	3.7	68.6	79.6	73.5
122.5°	2.5	3.7	56.4	74.7	71.1
125°	2.5	2.5	42.9	68.6	67.4
127.5°	2.5	2.5	29.4	60.0	62.5
130°	2.5	2.5	14.7	49.0	55.1
132.5°	2.5	2.5	2.5	40.4	45.3
135°	2.5	2.5	2.5	29.4	36.8
137.5°	2.5	2.5	2.5	14.7	27.0
140°	2.5	2.5	2.5	2.5	11.0
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)