

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: P290338

Luminaire Tested: **8SSRK-SLC-10-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290338
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-L840-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

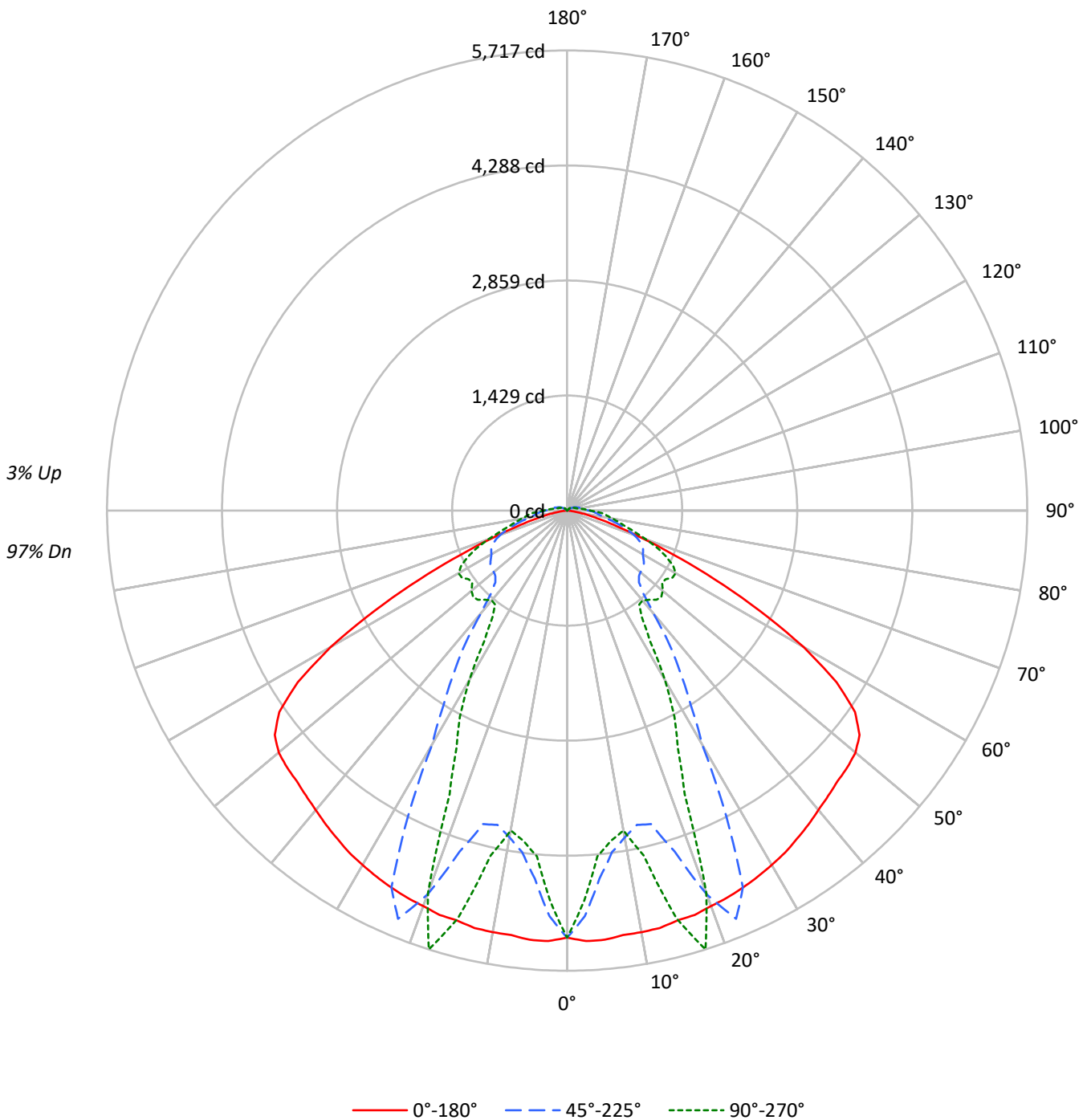
Lumens per Lamp: N/A
Luminaire Lumens: 11155.8 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

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	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	81
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	69
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	59
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	51
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	45
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	40
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	36
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	32
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	171319	171319	171319
5°	173191	119152	103546
10°	173734	90020	77599
15°	175301	76530	84603
20°	178306	85767	70714
25°	182373	79119	40393
30°	187299	47383	27361
35°	193403	32272	16748
40°	201214	20756	14082
45°	212590	15013	14316
50°	229225	13608	13502
55°	238626	12961	12487
60°	211411	11831	12687
65°	148000	11134	10854
70°	86007	9466	8163
75°	48899	7150	5807
80°	27774	5047	4490
85°	13436	4052	3676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.7	4.0
10°-20°	1323.7	11.9
20°-30°	1948.4	17.5
30°-40°	1903.4	17.1
40°-50°	1577.9	14.1
50°-60°	1448.7	13.0
60°-70°	1147.9	10.3
70°-80°	637.4	5.7
80°-90°	337.6	3.0
90°-100°	177.5	1.6
100°-110°	106.8	1.0
110°-120°	61.0	0.5
120°-130°	33.7	0.3
130°-140°	10.6	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°	3712.9	33.3
0°-40°	5616.3	50.3
0°-60°	8642.8	77.5
0°-90°	10765.8	96.5
90°-120°	345.4	3.1
90°-150°	390.0	3.5
90°-180°	390.0	3.5
0°-180°	11155.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5305	5305	5305	5305	5305	
5°	5353	5052	4590	4395	4312	509
15°	5273	4211	4033	4939	5243	1496
25°	5168	4021	5165	3521	3248	2388
35°	4978	4800	2448	1749	1615	3124
45°	4752	2170	1263	1442	1567	3685
55°	4365	967	1165	1396	1489	3790
65°	2024	628	1034	1312	1361	2048
75°	422	382	665	710	741	501
85°	45	188	366	445	464	62
90°	1	137	268	293	290	2
95°	2	108	208	217	207	2
105°	2	72	146	126	113	3
115°	2	9	95	90	84	2
125°	2	2	44	70	68	2
135°	2	2	2	30	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°	5305.4	5305.4	5305.4	5305.4	5305.4
2.5°	5352.7	5256.8	5043.7	4899.2	4850.6
5°	5352.7	5052.5	4590.2	4394.6	4312.3
7.5°	5320.3	4793.3	4280.0	4195.2	4141.6
10°	5317.9	4516.7	4121.7	4050.7	4035.7
12.5°	5311.6	4363.4	3999.6	4251.3	4387.1
15°	5273.0	4211.4	4033.2	4939.1	5243.1
17.5°	5266.8	4098.0	4441.9	5588.2	5716.6
20°	5228.1	4008.3	5078.6	5506.0	5053.7
22.5°	5203.2	3946.0	5488.6	4429.5	3814.0
25°	5168.3	4020.8	5164.6	3521.1	3248.3
27.5°	5128.5	4261.3	4281.2	3065.1	2884.5
30°	5083.6	4637.5	3356.7	2678.9	2428.4
32.5°	5038.8	4912.9	2857.0	2199.2	1905.1
35°	4977.7	4799.5	2448.4	1749.4	1614.8
37.5°	4920.4	4276.2	2075.8	1510.1	1471.5
40°	4856.8	3445.1	1667.1	1415.4	1455.3
42.5°	4803.3	2731.2	1400.5	1405.5	1503.9
45°	4752.2	2170.5	1263.4	1441.6	1567.4
47.5°	4722.3	1725.7	1208.6	1485.2	1586.1
50°	4676.2	1383.0	1188.7	1493.9	1550.0
52.5°	4579.0	1140.1	1182.4	1447.8	1486.5
55°	4364.7	966.9	1165.0	1395.5	1488.9
57.5°	3969.7	859.7	1125.1	1406.7	1550.0
60°	3391.6	776.2	1085.3	1442.8	1557.5
62.5°	2698.8	700.2	1064.1	1412.9	1484.0
65°	2023.5	628.0	1034.2	1312.0	1360.6
67.5°	1416.7	565.7	966.9	1186.2	1212.3
70°	963.1	505.9	883.4	1025.4	1036.7
72.5°	647.9	446.1	780.0	859.7	877.2
75°	422.4	382.5	665.4	710.2	741.4
77.5°	269.1	325.2	552.0	609.3	649.2
80°	167.0	269.1	464.8	547.0	571.9
82.5°	93.4	224.3	402.5	488.4	502.1
85°	44.9	188.1	366.3	444.8	463.5
87.5°	11.2	159.5	322.7	368.8	368.8
90°	1.2	137.1	267.9	292.8	290.3
92.5°	1.2	120.9	233.0	249.2	244.2
95°	2.5	108.4	208.1	216.8	206.8
97.5°	2.5	102.2	191.9	185.7	170.7
100°	2.5	94.7	174.4	158.2	142.0
102.5°	2.5	84.7	159.5	139.6	125.8
105°	2.5	72.3	145.8	125.8	113.4
107.5°	2.5	57.3	130.8	114.6	104.7
110°	2.5	41.1	117.1	105.9	98.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	24.9	105.9	98.4	92.2
115°	2.5	8.7	94.7	89.7	83.5
117.5°	2.5	3.7	83.5	86.0	78.5
120°	2.5	3.7	69.8	81.0	74.8
122.5°	2.5	3.7	57.3	76.0	72.3
125°	2.5	2.5	43.6	69.8	68.5
127.5°	2.5	2.5	29.9	61.1	63.5
130°	2.5	2.5	15.0	49.8	56.1
132.5°	2.5	2.5	2.5	41.1	46.1
135°	2.5	2.5	2.5	29.9	37.4
137.5°	2.5	2.5	2.5	15.0	27.4
140°	2.5	2.5	2.5	2.5	11.2
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)