

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: P290162

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LN-10-L840-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10594.6 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

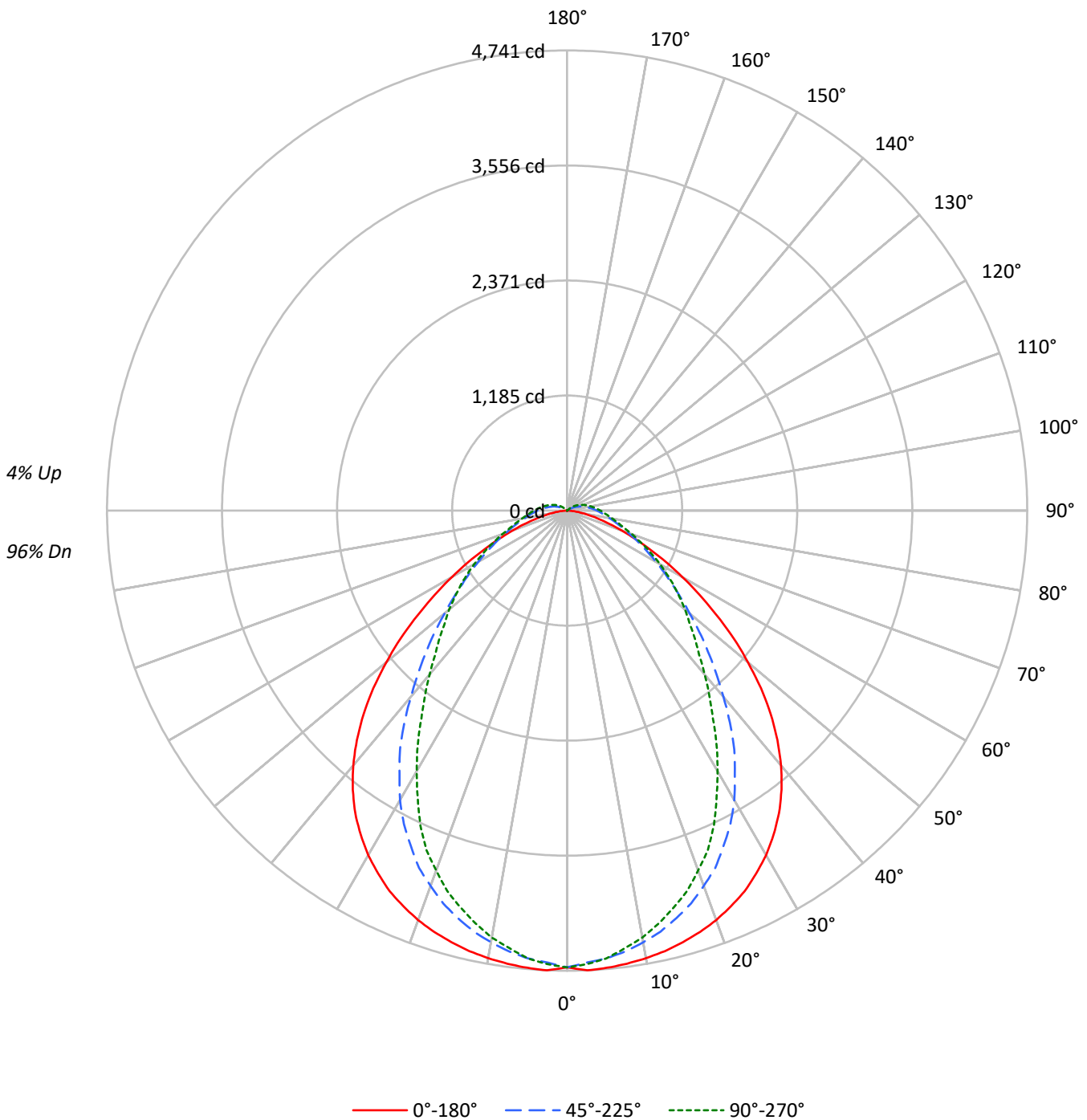
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	98	98	98	96				
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36				
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	151967	151967	151967
5°	152995	120219	111206
10°	152972	98647	85890
15°	153057	82490	68338
20°	153109	69482	55215
25°	152697	58409	44483
30°	151034	48614	34914
35°	147897	39596	27177
40°	142111	31181	21352
45°	132769	24370	16968
50°	119103	18843	13817
55°	102657	14666	11224
60°	85509	11505	9023
65°	68167	9054	7127
70°	53189	7169	5603
75°	39811	5824	4460
80°	28805	4803	3698
85°	17895	4052	3152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.8	4.2
10°-20°	1237.2	11.7
20°-30°	1783.1	16.8
30°-40°	1931.5	18.2
40°-50°	1710.7	16.1
50°-60°	1301.7	12.3
60°-70°	867.2	8.2
70°-80°	535.8	5.1
80°-90°	335.7	3.2
90°-100°	220.6	2.1
100°-110°	135.2	1.3
110°-120°	69.7	0.7
120°-130°	22.9	0.2
130°-140°	1.4	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°	3462.2	32.7
0°-40°	5393.6	50.9
0°-60°	8406.1	79.3
0°-90°	10144.8	95.8
90°-120°	425.5	4.0
90°-150°	449.7	4.2
90°-180°	450.0	4.2
0°-180°	10594.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4706	4706	4706	4706	4706	
5°	4728	4699	4631	4649	4631	450
15°	4604	4517	4347	4289	4235	1301
25°	4327	4124	3813	3650	3577	1991
35°	3806	3450	3004	2721	2620	2372
45°	2968	2503	2051	1895	1858	2277
55°	1878	1533	1318	1334	1338	1687
65°	932	817	841	890	893	941
75°	344	419	542	578	569	380
85°	60	216	366	404	398	73
90°	2	157	305	344	341	4
95°	6	111	253	293	292	4
105°	4	44	158	202	207	4
115°	4	4	81	126	137	3
125°	2	2	2	55	68	2
135°	0	0	0	0	0	1
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°	4706.1	4706.1	4706.1	4706.1	4706.1
2.5°	4741.0	4714.8	4661.2	4692.4	4677.4
5°	4728.5	4698.6	4631.3	4648.8	4631.3
7.5°	4708.6	4671.2	4581.5	4589.0	4547.9
10°	4682.4	4632.6	4516.7	4504.2	4466.9
12.5°	4648.8	4579.0	4443.2	4393.4	4357.2
15°	4603.9	4516.7	4347.3	4288.7	4235.1
17.5°	4552.8	4440.7	4243.8	4172.8	4109.3
20°	4489.3	4348.5	4114.3	4015.8	3946.0
22.5°	4412.0	4247.6	3985.9	3842.6	3786.6
25°	4327.3	4124.2	3812.7	3649.5	3577.2
27.5°	4216.4	3988.4	3642.0	3437.7	3334.3
30°	4099.3	3827.7	3443.9	3208.4	3098.8
32.5°	3958.5	3652.0	3214.7	2964.2	2867.0
35°	3806.5	3450.1	3004.1	2721.2	2620.3
37.5°	3627.1	3232.1	2753.6	2494.5	2406.0
40°	3430.2	2995.4	2504.4	2276.4	2206.6
42.5°	3205.9	2754.9	2270.2	2073.3	2013.5
45°	2967.9	2503.2	2050.9	1895.1	1857.8
47.5°	2708.8	2251.5	1845.3	1734.4	1707.0
50°	2429.7	1999.8	1646.0	1584.9	1586.1
52.5°	2164.3	1761.8	1476.5	1460.3	1456.6
55°	1877.7	1532.6	1318.3	1334.5	1338.2
57.5°	1618.5	1319.5	1183.7	1213.6	1217.3
60°	1371.8	1128.9	1055.4	1101.5	1107.7
62.5°	1146.3	965.6	945.7	993.1	991.8
65°	932.0	817.4	841.0	889.6	893.4
67.5°	750.1	696.5	753.8	796.2	793.7
70°	595.6	588.1	669.1	714.0	711.5
72.5°	463.5	497.1	603.1	641.7	631.7
75°	343.9	418.7	542.0	578.1	569.4
77.5°	252.9	353.9	488.4	523.3	517.1
80°	173.2	300.3	442.3	478.5	471.0
82.5°	110.9	255.4	402.5	437.3	432.4
85°	59.8	215.6	366.3	403.7	397.5
87.5°	22.4	183.2	333.9	371.3	368.8
90°	2.5	157.0	305.3	343.9	341.4
92.5°	3.7	133.3	277.9	317.7	317.7
95°	6.2	110.9	252.9	292.8	291.6
97.5°	5.0	93.4	225.5	269.1	269.1
100°	5.0	77.3	200.6	244.2	246.7
102.5°	5.0	61.1	179.4	221.8	226.8
105°	3.7	43.6	158.2	201.9	206.8
107.5°	3.7	24.9	137.1	183.2	189.4
110°	3.7	6.2	118.4	163.2	170.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	3.7	99.7	144.5	152.0
115°	3.7	3.7	81.0	125.8	137.1
117.5°	2.5	2.5	59.8	109.6	119.6
120°	2.5	2.5	37.4	92.2	102.2
122.5°	2.5	2.5	16.2	73.5	87.2
125°	2.5	2.5	2.5	54.8	68.5
127.5°	2.5	2.5	1.2	32.4	48.6
130°	2.5	2.5	1.2	12.5	29.9
132.5°	2.5	2.5	1.2	1.2	8.7
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)