

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: P290158

Luminaire Tested: **8SSRK-LN-10-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290158
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-L940-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8963.1 lumens
Efficiency: N/A
Efficacy: 124.6 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

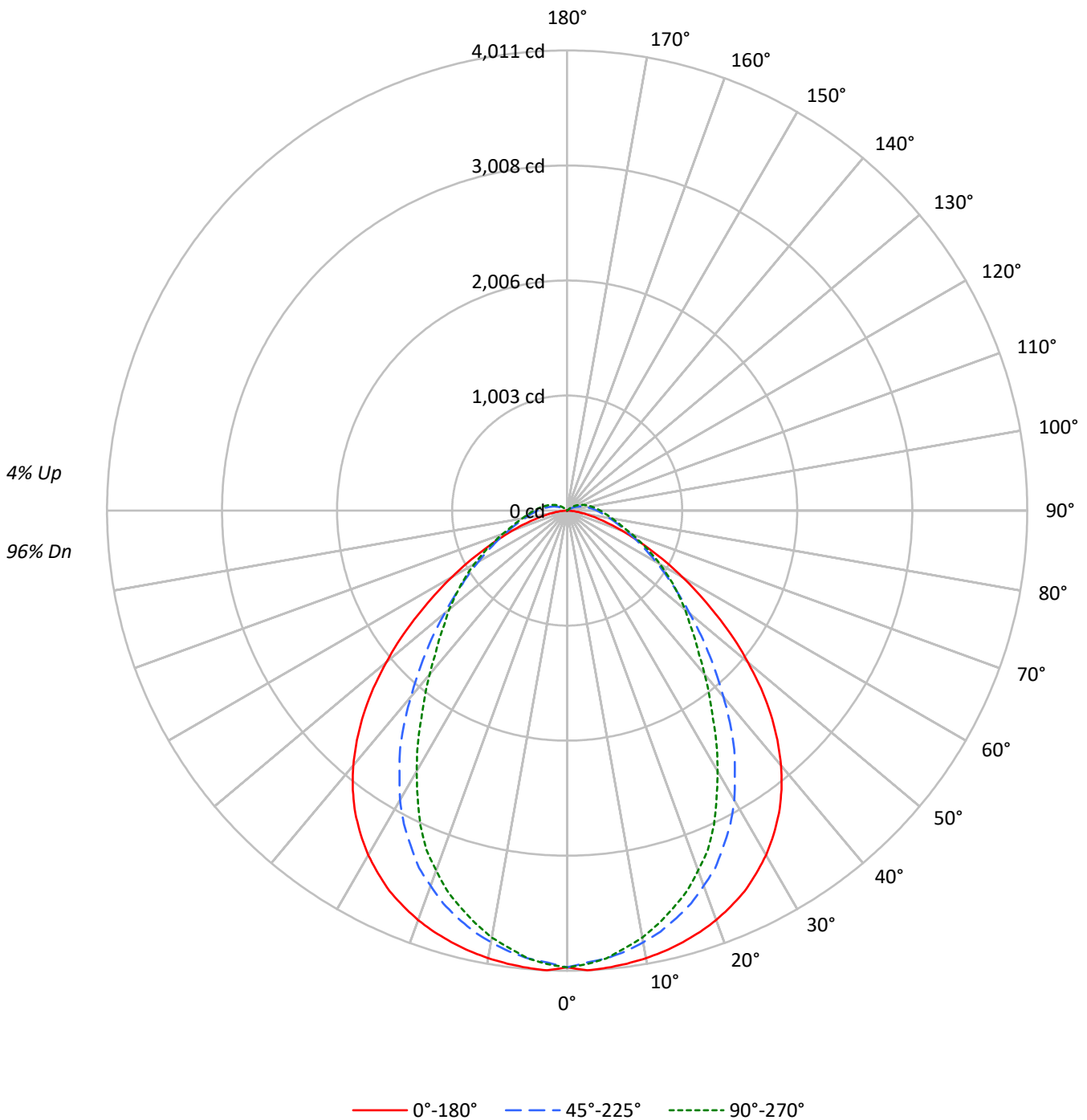
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	128565	128565	128565
5°	129433	101706	94081
10°	129414	83455	72663
15°	129486	69787	57814
20°	129528	58782	46713
25°	129182	49415	37633
30°	127774	41128	29538
35°	125121	33499	22992
40°	120228	26380	18064
45°	112325	20618	14355
50°	100760	15941	11689
55°	86846	12407	9495
60°	72344	9732	7634
65°	57671	7660	6029
70°	44999	6066	4740
75°	33676	4927	3773
80°	24364	4064	3129
85°	15142	3428	2667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.8	4.2
10°-20°	1046.7	11.7
20°-30°	1508.5	16.8
30°-40°	1634.0	18.2
40°-50°	1447.3	16.1
50°-60°	1101.2	12.3
60°-70°	733.7	8.2
70°-80°	453.3	5.1
80°-90°	284.0	3.2
90°-100°	186.6	2.1
100°-110°	114.4	1.3
110°-120°	59.0	0.7
120°-130°	19.4	0.2
130°-140°	1.2	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°	2929.0	32.7
0°-40°	4563.0	50.9
0°-60°	7111.5	79.3
0°-90°	8582.5	95.8
90°-120°	360.0	4.0
90°-150°	380.5	4.2
90°-180°	381.0	4.3
0°-180°	8963.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3981	3981	3981	3981	3981	
5°	4000	3975	3918	3933	3918	381
15°	3895	3821	3678	3628	3583	1100
25°	3661	3489	3226	3088	3026	1684
35°	3220	2919	2542	2302	2217	2007
45°	2511	2118	1735	1603	1572	1926
55°	1588	1297	1115	1129	1132	1427
65°	788	692	712	753	756	796
75°	291	354	458	489	482	322
85°	51	182	310	342	336	62
90°	2	133	258	291	289	4
95°	5	94	214	248	247	4
105°	3	37	134	171	175	4
115°	3	3	68	106	116	3
125°	2	2	2	46	58	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°	3981.4	3981.4	3981.4	3981.4	3981.4
2.5°	4010.9	3988.7	3943.4	3969.8	3957.1
5°	4000.3	3975.0	3918.1	3932.9	3918.1
7.5°	3983.5	3951.8	3875.9	3882.3	3847.5
10°	3961.3	3919.2	3821.1	3810.6	3779.0
12.5°	3932.9	3873.8	3758.9	3716.8	3686.2
15°	3894.9	3821.1	3677.8	3628.2	3582.9
17.5°	3851.7	3756.8	3590.3	3530.2	3476.4
20°	3797.9	3678.8	3480.7	3397.4	3338.4
22.5°	3732.6	3593.4	3372.1	3250.9	3203.4
25°	3660.9	3489.1	3225.6	3087.5	3026.3
27.5°	3567.1	3374.2	3081.2	2908.3	2820.8
30°	3468.0	3238.2	2913.6	2714.3	2621.6
32.5°	3348.9	3089.6	2719.6	2507.7	2425.5
35°	3220.3	2918.8	2541.5	2302.2	2216.8
37.5°	3068.5	2734.4	2329.6	2110.3	2035.5
40°	2902.0	2534.1	2118.8	1925.9	1866.8
42.5°	2712.2	2330.6	1920.6	1754.0	1703.4
45°	2510.9	2117.7	1735.1	1603.3	1571.7
47.5°	2291.6	1904.8	1561.1	1467.3	1444.1
50°	2055.5	1691.8	1392.5	1340.8	1341.9
52.5°	1831.0	1490.5	1249.1	1235.4	1232.3
55°	1588.5	1296.6	1115.2	1128.9	1132.1
57.5°	1369.3	1116.3	1001.4	1026.7	1029.9
60°	1160.6	955.0	892.8	931.8	937.1
62.5°	969.8	816.9	800.1	840.1	839.1
65°	788.5	691.5	711.5	752.6	755.8
67.5°	634.6	589.2	637.7	673.6	671.5
70°	503.9	497.5	566.1	604.0	601.9
72.5°	392.1	420.6	510.2	542.9	534.4
75°	290.9	354.2	458.5	489.1	481.7
77.5°	214.0	299.4	413.2	442.7	437.5
80°	146.5	254.0	374.2	404.8	398.5
82.5°	93.8	216.1	340.5	370.0	365.8
85°	50.6	182.4	309.9	341.5	336.3
87.5°	19.0	155.0	282.5	314.1	312.0
90°	2.1	132.8	258.3	290.9	288.8
92.5°	3.2	112.8	235.1	268.8	268.8
95°	5.3	93.8	214.0	247.7	246.7
97.5°	4.2	79.1	190.8	227.7	227.7
100°	4.2	65.4	169.7	206.6	208.7
102.5°	4.2	51.7	151.8	187.6	191.8
105°	3.2	36.9	133.9	170.8	175.0
107.5°	3.2	21.1	116.0	155.0	160.2
110°	3.2	5.3	100.1	138.1	144.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	3.2	84.3	122.3	128.6
115°	3.2	3.2	68.5	106.5	116.0
117.5°	2.1	2.1	50.6	92.8	101.2
120°	2.1	2.1	31.6	78.0	86.4
122.5°	2.1	2.1	13.7	62.2	73.8
125°	2.1	2.1	2.1	46.4	58.0
127.5°	2.1	2.1	1.1	27.4	41.1
130°	2.1	2.1	1.1	10.5	25.3
132.5°	2.1	2.1	1.1	1.1	7.4
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)