

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: P290160

Luminaire Tested: **8SSRK-LN-10-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290160
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-L830-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

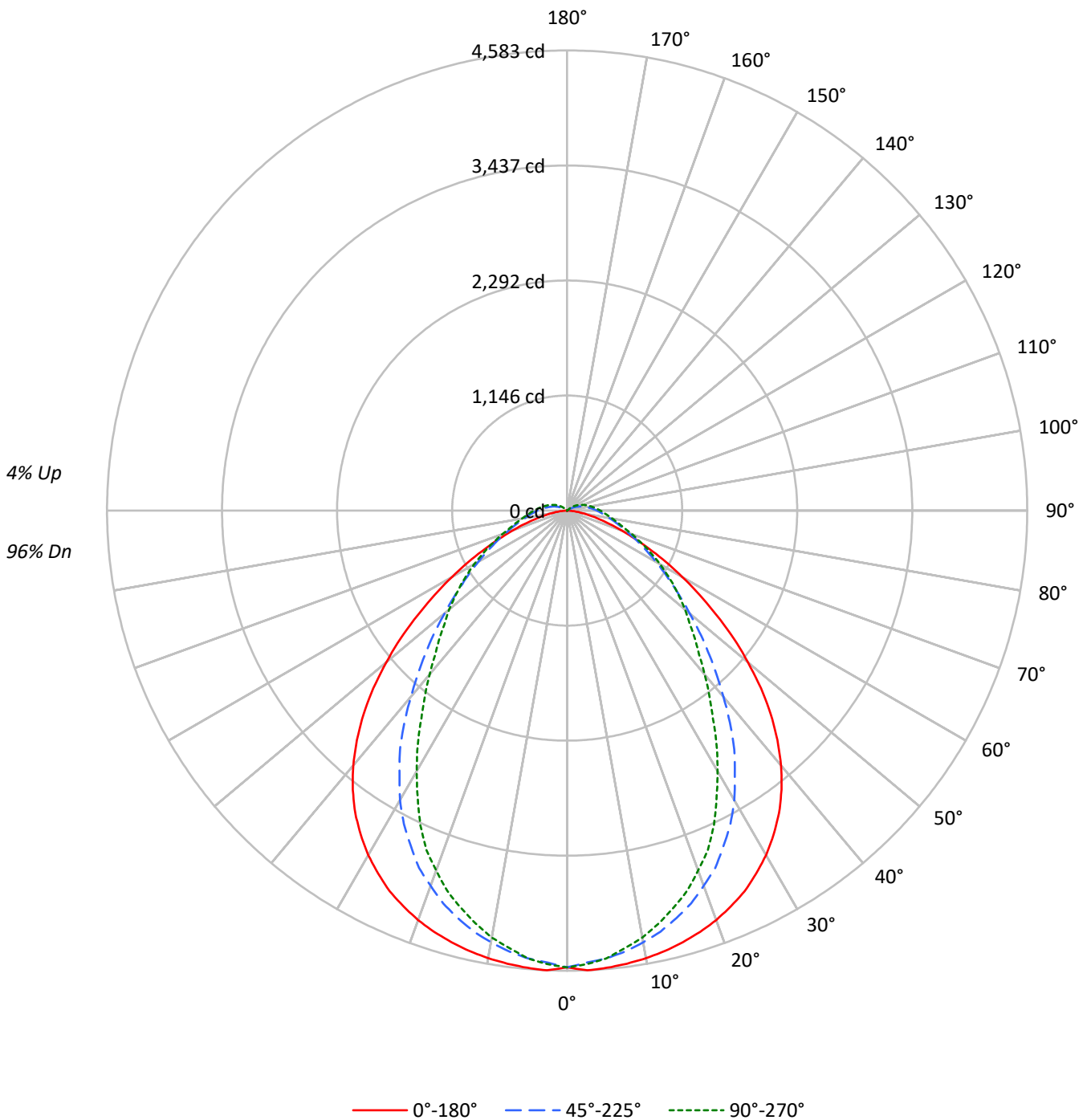
Lumens per Lamp: N/A
Luminaire Lumens: 10241.3 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

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	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°	146900	146900	146900
5°	147892	116211	107499
10°	147873	95358	83025
15°	147954	79739	66060
20°	148003	67163	53373
25°	147605	56461	43000
30°	145997	46993	33749
35°	142967	38275	26270
40°	137371	30142	20640
45°	128345	23558	16402
50°	115127	18215	13356
55°	99235	14177	10849
60°	82661	11121	8722
65°	65892	8753	6889
70°	51411	6930	5415
75°	38480	5630	4311
80°	27840	4643	3575
85°	17296	3917	3047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.1	4.2
10°-20°	1196.0	11.7
20°-30°	1723.6	16.8
30°-40°	1867.1	18.2
40°-50°	1653.7	16.1
50°-60°	1258.3	12.3
60°-70°	838.3	8.2
70°-80°	517.9	5.1
80°-90°	324.5	3.2
90°-100°	213.2	2.1
100°-110°	130.7	1.3
110°-120°	67.4	0.7
120°-130°	22.1	0.2
130°-140°	1.3	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°	3346.7	32.7
0°-40°	5213.8	50.9
0°-60°	8125.7	79.3
0°-90°	9806.5	95.8
90°-120°	411.3	4.0
90°-150°	434.8	4.2
90°-180°	435.0	4.2
0°-180°	10241.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4549	4549	4549	4549	4549	
5°	4571	4542	4477	4494	4477	435
15°	4450	4366	4202	4146	4094	1257
25°	4183	3987	3686	3528	3458	1924
35°	3680	3335	2904	2630	2533	2293
45°	2869	2420	1982	1832	1796	2201
55°	1815	1482	1274	1290	1294	1630
65°	901	790	813	860	864	910
75°	332	405	524	559	550	368
85°	58	208	354	390	384	71
90°	2	152	295	332	330	4
95°	6	107	244	283	282	4
105°	4	42	153	195	200	4
115°	4	4	78	122	132	3
125°	2	2	2	53	66	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°	4549.2	4549.2	4549.2	4549.2	4549.2
2.5°	4582.9	4557.6	4505.8	4535.9	4521.5
5°	4570.8	4541.9	4476.9	4493.7	4476.9
7.5°	4551.6	4515.4	4428.7	4435.9	4396.2
10°	4526.3	4478.1	4366.1	4354.0	4317.9
12.5°	4493.7	4426.3	4295.0	4246.8	4211.9
15°	4450.4	4366.1	4202.3	4145.7	4093.9
17.5°	4401.0	4292.6	4102.3	4033.7	3972.2
20°	4339.6	4203.5	3977.0	3881.9	3814.4
22.5°	4264.9	4105.9	3853.0	3714.5	3660.3
25°	4183.0	3986.7	3685.6	3527.8	3457.9
27.5°	4075.8	3855.4	3520.6	3323.0	3223.1
30°	3962.6	3700.0	3329.1	3101.4	2995.4
32.5°	3826.5	3530.2	3107.4	2865.4	2771.4
35°	3679.6	3335.1	2903.9	2630.5	2532.9
37.5°	3506.1	3124.3	2661.8	2411.3	2325.8
40°	3315.8	2895.5	2420.9	2200.5	2133.1
42.5°	3099.0	2663.0	2194.5	2004.2	1946.4
45°	2869.0	2419.7	1982.5	1831.9	1795.8
47.5°	2618.4	2176.4	1783.8	1676.6	1650.1
50°	2348.6	1933.1	1591.1	1532.0	1533.2
52.5°	2092.1	1703.1	1427.3	1411.6	1408.0
55°	1815.1	1481.5	1274.3	1290.0	1293.6
57.5°	1564.6	1275.5	1144.2	1173.1	1176.7
60°	1326.1	1091.2	1020.2	1064.7	1070.7
62.5°	1108.1	933.4	914.2	959.9	958.7
65°	900.9	790.1	813.0	860.0	863.6
67.5°	725.1	673.3	728.7	769.6	767.2
70°	575.7	568.5	646.8	690.1	687.7
72.5°	448.1	480.6	582.9	620.3	610.6
75°	332.4	404.7	523.9	558.9	550.4
77.5°	244.5	342.1	472.1	505.9	499.8
80°	167.4	290.3	427.6	462.5	455.3
82.5°	107.2	246.9	389.0	422.8	417.9
85°	57.8	208.4	354.1	390.2	384.2
87.5°	21.7	177.1	322.8	358.9	356.5
90°	2.4	151.8	295.1	332.4	330.0
92.5°	3.6	128.9	268.6	307.1	307.1
95°	6.0	107.2	244.5	283.0	281.8
97.5°	4.8	90.3	218.0	260.2	260.2
100°	4.8	74.7	193.9	236.1	238.5
102.5°	4.8	59.0	173.4	214.4	219.2
105°	3.6	42.2	153.0	195.1	199.9
107.5°	3.6	24.1	132.5	177.1	183.1
110°	3.6	6.0	114.4	157.8	165.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.6	3.6	96.4	139.7	146.9
115°	3.6	3.6	78.3	121.6	132.5
117.5°	2.4	2.4	57.8	106.0	115.6
120°	2.4	2.4	36.1	89.1	98.8
122.5°	2.4	2.4	15.7	71.1	84.3
125°	2.4	2.4	2.4	53.0	66.2
127.5°	2.4	2.4	1.2	31.3	47.0
130°	2.4	2.4	1.2	12.0	28.9
132.5°	2.4	2.4	1.2	1.2	8.4
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)