

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: P290161

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290161
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-L835-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10418.0 lumens
Efficiency: N/A
Efficacy: 144.9 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

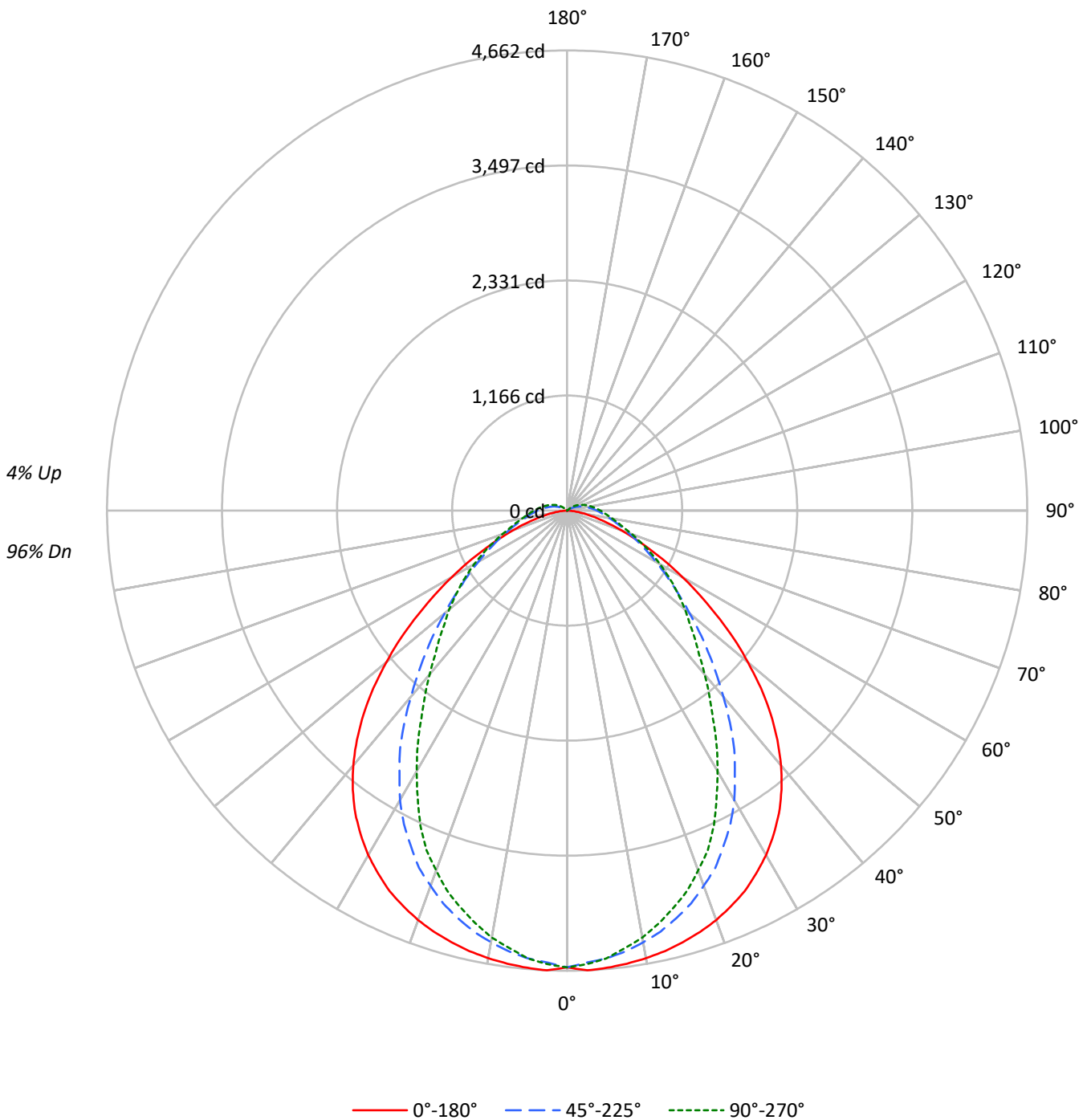
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96					96			
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81					81			
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69					69			
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59					59			
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52					52			
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46					46			
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41					41			
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36					36			
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33					33			
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	149432	149432	149432
5°	150445	118215	109352
10°	150421	97002	84457
15°	150507	81115	67199
20°	150554	68324	54294
25°	150153	57434	43742
30°	148514	47804	34332
35°	145430	38936	26724
40°	139741	30662	20997
45°	130559	23964	16685
50°	117118	18528	13587
55°	100946	14422	11037
60°	84088	11313	8873
65°	67033	8904	7008
70°	52304	7049	5509
75°	39151	5727	4386
80°	28323	4724	3636
85°	17596	3984	3099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.4	4.2
10°-20°	1216.6	11.7
20°-30°	1753.4	16.8
30°-40°	1899.3	18.2
40°-50°	1682.2	16.1
50°-60°	1280.0	12.3
60°-70°	852.8	8.2
70°-80°	526.9	5.1
80°-90°	330.1	3.2
90°-100°	216.9	2.1
100°-110°	132.9	1.3
110°-120°	68.6	0.7
120°-130°	22.5	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°	3404.4	32.7
0°-40°	5303.7	50.9
0°-60°	8265.9	79.3
0°-90°	9975.7	95.8
90°-120°	418.4	4.0
90°-150°	442.3	4.2
90°-180°	442.0	4.2
0°-180°	10418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4628	4628	4628	4628	4628	
5°	4650	4620	4554	4571	4554	442
15°	4527	4441	4275	4217	4164	1279
25°	4255	4056	3749	3589	3518	1958
35°	3743	3393	2954	2676	2577	2333
45°	2918	2462	2017	1864	1827	2239
55°	1846	1507	1296	1312	1316	1659
65°	916	804	827	875	878	925
75°	338	412	533	568	560	374
85°	59	212	360	397	391	72
90°	2	154	300	338	336	4
95°	6	109	249	288	287	4
105°	4	43	156	198	203	4
115°	4	4	80	124	135	3
125°	2	2	2	54	67	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



TEST NUMBER: P290161

CATALOG NUMBER: 8SSRK-LN-10-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4627.6	4627.6	4627.6	4627.6	4627.6
2.5°	4661.9	4636.2	4583.5	4614.1	4599.4
5°	4649.7	4620.3	4554.1	4571.3	4554.1
7.5°	4630.1	4593.3	4505.1	4512.5	4472.0
10°	4604.3	4555.3	4441.4	4429.1	4392.4
12.5°	4571.3	4502.7	4369.1	4320.1	4284.6
15°	4527.2	4441.4	4274.8	4217.2	4164.5
17.5°	4476.9	4366.7	4173.1	4103.2	4040.7
20°	4414.4	4276.0	4045.7	3948.9	3880.2
22.5°	4338.5	4176.7	3919.5	3778.6	3723.4
25°	4255.2	4055.5	3749.1	3588.6	3517.6
27.5°	4146.1	3921.9	3581.3	3380.4	3278.7
30°	4030.9	3763.9	3386.5	3154.9	3047.1
32.5°	3892.5	3591.1	3161.0	2914.8	2819.2
35°	3743.0	3392.6	2954.0	2675.9	2576.6
37.5°	3566.6	3178.2	2707.7	2452.9	2365.9
40°	3373.0	2945.4	2462.7	2238.5	2169.9
42.5°	3152.5	2708.9	2232.3	2038.8	1979.9
45°	2918.5	2461.5	2016.7	1863.5	1826.8
47.5°	2663.6	2214.0	1814.5	1705.5	1678.5
50°	2389.2	1966.5	1618.5	1558.5	1559.7
52.5°	2128.2	1732.5	1451.9	1435.9	1432.3
55°	1846.4	1507.0	1296.3	1312.2	1315.9
57.5°	1591.6	1297.5	1164.0	1193.4	1197.0
60°	1349.0	1110.0	1037.8	1083.1	1089.2
62.5°	1127.2	949.5	929.9	976.5	975.3
65°	916.5	803.7	827.0	874.8	878.5
67.5°	737.6	684.9	741.3	782.9	780.5
70°	585.7	578.3	657.9	702.0	699.6
72.5°	455.8	488.9	593.0	631.0	621.2
75°	338.2	411.7	533.0	568.5	559.9
77.5°	248.7	348.0	480.3	514.6	508.5
80°	170.3	295.3	435.0	470.5	463.1
82.5°	109.0	251.2	395.7	430.0	425.1
85°	58.8	212.0	360.2	397.0	390.8
87.5°	22.1	180.1	328.4	365.1	362.7
90°	2.5	154.4	300.2	338.2	335.7
92.5°	3.7	131.1	273.2	312.4	312.4
95°	6.1	109.0	248.7	287.9	286.7
97.5°	4.9	91.9	221.8	264.6	264.6
100°	4.9	76.0	197.3	240.1	242.6
102.5°	4.9	60.0	176.4	218.1	223.0
105°	3.7	42.9	155.6	198.5	203.4
107.5°	3.7	24.5	134.8	180.1	186.2
110°	3.7	6.1	116.4	160.5	167.9



TEST NUMBER: P290161

CATALOG NUMBER: 8SSRK-LN-10-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	3.7	98.0	142.1	149.5
115°	3.7	3.7	79.6	123.7	134.8
117.5°	2.5	2.5	58.8	107.8	117.6
120°	2.5	2.5	36.8	90.7	100.5
122.5°	2.5	2.5	15.9	72.3	85.8
125°	2.5	2.5	2.5	53.9	67.4
127.5°	2.5	2.5	1.2	31.9	47.8
130°	2.5	2.5	1.2	12.3	29.4
132.5°	2.5	2.5	1.2	1.2	8.6
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)