

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: P289643

Luminaire Tested: **8SSRK-TB-12-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-TB-12-L935-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9191.9 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

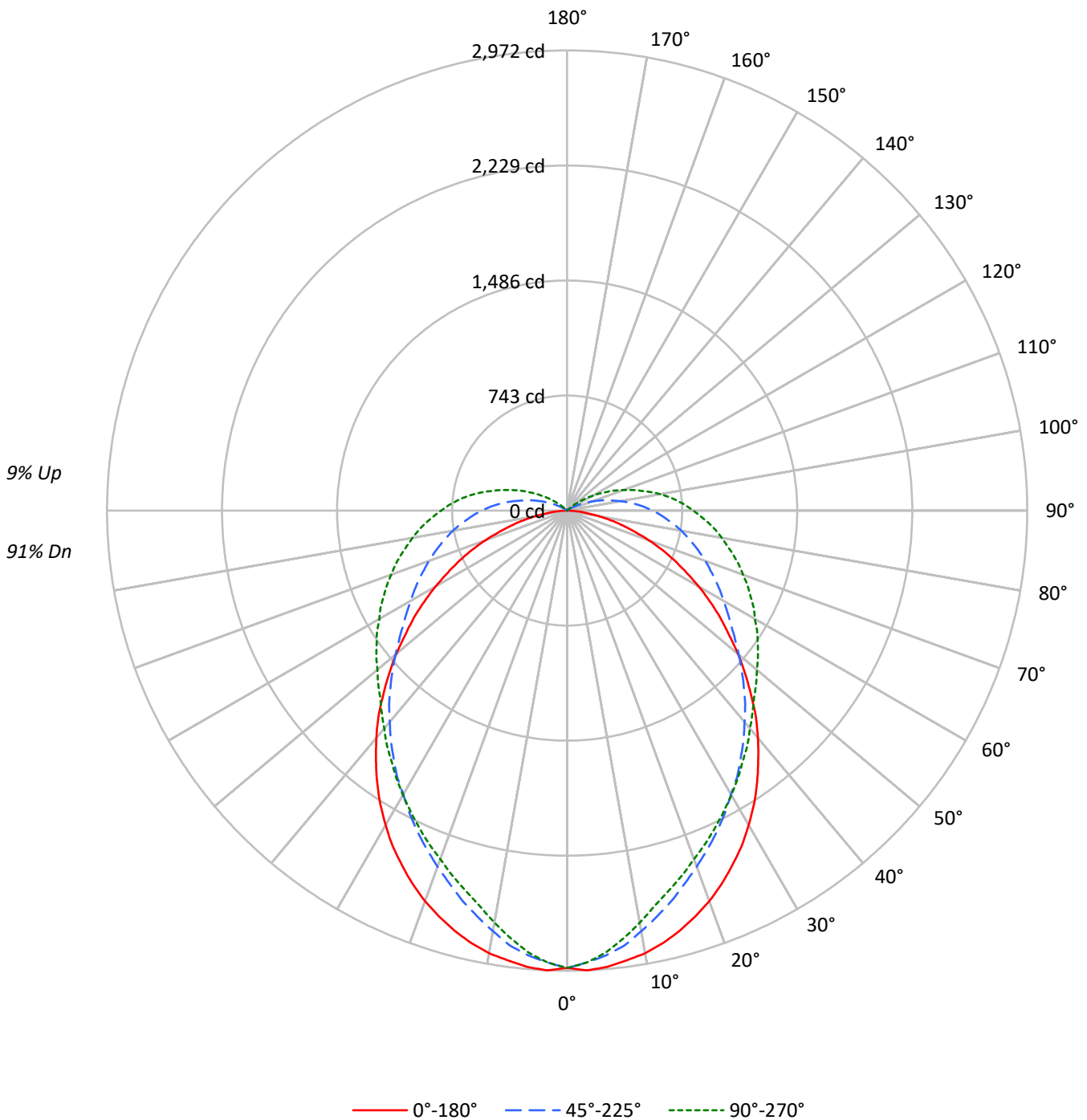
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	95379	95379	95379
5°	95722	74863	68804
10°	94827	60245	51966
15°	93402	49515	40982
20°	91539	41320	33521
25°	89128	35060	28112
30°	86377	29876	23899
35°	83136	25751	20504
40°	79395	22181	17779
45°	75119	19180	15592
50°	70686	16560	13939
55°	66120	14386	12602
60°	61181	12727	11405
65°	56135	11368	10427
70°	50259	10167	9523
75°	43076	9097	8708
80°	34809	8133	7961
85°	23670	7152	7267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	3.0
10°-20°	745.3	8.1
20°-30°	1078.4	11.7
30°-40°	1254.4	13.6
40°-50°	1276.8	13.9
50°-60°	1188.1	12.9
60°-70°	1034.5	11.3
70°-80°	842.2	9.2
80°-90°	637.9	6.9
90°-100°	442.4	4.8
100°-110°	260.0	2.8
110°-120°	121.9	1.3
120°-130°	34.7	0.4
130°-140°	1.9	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°	2097.1	22.8
0°-40°	3351.5	36.5
0°-60°	5816.4	63.3
0°-90°	8331.0	90.6
90°-120°	824.3	9.0
90°-150°	860.9	9.4
90°-180°	861.0	9.4
0°-180°	9191.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2954	2954	2954	2954	2954	
5°	2958	2935	2884	2884	2865	280
15°	2810	2735	2610	2563	2540	791
25°	2526	2414	2289	2270	2261	1163
35°	2140	2028	1954	1972	1977	1337
45°	1679	1614	1614	1679	1707	1296
55°	1209	1205	1293	1447	1502	1080
65°	768	833	1056	1242	1307	760
75°	372	544	847	1042	1112	397
85°	79	340	647	851	916	91
90°	0	246	549	749	814	4
95°	0	158	451	651	716	0
105°	0	37	256	433	493	0
115°	0	0	102	237	288	0
125°	0	0	5	79	116	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	5	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°	2953.7	2953.7	2953.7	2953.7	2953.7
2.5°	2972.3	2958.4	2921.2	2935.1	2921.2
5°	2958.4	2935.1	2884.0	2884.0	2865.4
7.5°	2930.5	2902.6	2832.8	2809.5	2786.3
10°	2902.6	2860.7	2758.4	2730.5	2702.6
12.5°	2860.7	2800.2	2684.0	2642.1	2614.2
15°	2809.5	2735.1	2609.5	2563.0	2539.8
17.5°	2749.1	2665.3	2525.8	2488.6	2470.0
20°	2684.0	2586.3	2446.7	2414.2	2395.6
22.5°	2609.5	2497.9	2367.6	2344.4	2330.4
25°	2525.8	2414.2	2288.6	2270.0	2260.7
27.5°	2442.1	2321.1	2204.8	2195.5	2190.9
30°	2344.4	2228.1	2116.5	2121.1	2121.1
32.5°	2246.7	2130.4	2042.0	2051.3	2051.3
35°	2139.7	2028.1	1953.7	1972.3	1976.9
37.5°	2028.1	1930.4	1869.9	1897.8	1911.8
40°	1916.4	1828.1	1781.5	1823.4	1837.4
42.5°	1804.8	1721.1	1702.5	1753.6	1772.2
45°	1679.2	1614.1	1614.1	1679.2	1707.1
47.5°	1558.3	1516.4	1530.4	1614.1	1656.0
50°	1442.0	1409.4	1446.6	1553.6	1600.1
52.5°	1316.4	1307.1	1367.6	1497.8	1553.6
55°	1209.4	1204.8	1293.1	1446.6	1502.5
57.5°	1093.1	1107.1	1228.0	1395.5	1455.9
60°	981.5	1009.4	1167.5	1344.3	1400.1
62.5°	869.8	925.7	1111.7	1293.1	1358.3
65°	767.5	832.6	1055.9	1242.0	1307.1
67.5°	665.2	748.9	1000.1	1195.5	1260.6
70°	562.8	674.5	948.9	1144.3	1209.4
72.5°	460.5	609.4	897.8	1093.1	1162.9
75°	372.1	544.2	846.6	1042.0	1111.7
77.5°	288.4	493.1	795.4	1000.1	1060.6
80°	209.3	437.2	748.9	948.9	1014.0
82.5°	134.9	390.7	697.7	897.8	967.5
85°	79.1	339.6	646.6	851.2	916.4
87.5°	32.6	288.4	600.1	800.1	865.2
90°	0.0	246.5	548.9	748.9	814.0
92.5°	0.0	204.7	502.4	702.4	767.5
95°	0.0	158.2	451.2	651.2	716.3
97.5°	0.0	120.9	400.0	600.1	665.2
100°	0.0	93.0	348.9	539.6	609.4
102.5°	0.0	65.1	297.7	483.8	553.5
105°	0.0	37.2	255.8	432.6	493.1
107.5°	0.0	18.6	214.0	381.4	441.9
110°	0.0	4.7	172.1	330.3	386.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	134.9	283.7	339.6
115°	0.0	0.0	102.3	237.2	288.4
117.5°	0.0	0.0	69.8	195.4	241.9
120°	0.0	0.0	41.9	153.5	195.4
122.5°	0.0	0.0	18.6	116.3	153.5
125°	0.0	0.0	4.7	79.1	116.3
127.5°	0.0	0.0	0.0	46.5	79.1
130°	0.0	0.0	0.0	23.3	46.5
132.5°	0.0	0.0	0.0	4.7	18.6
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°	4.7	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)