

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-50-L835-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-50-L835-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4886.1 lumens
Efficiency: N/A
Efficacy: 142.9 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

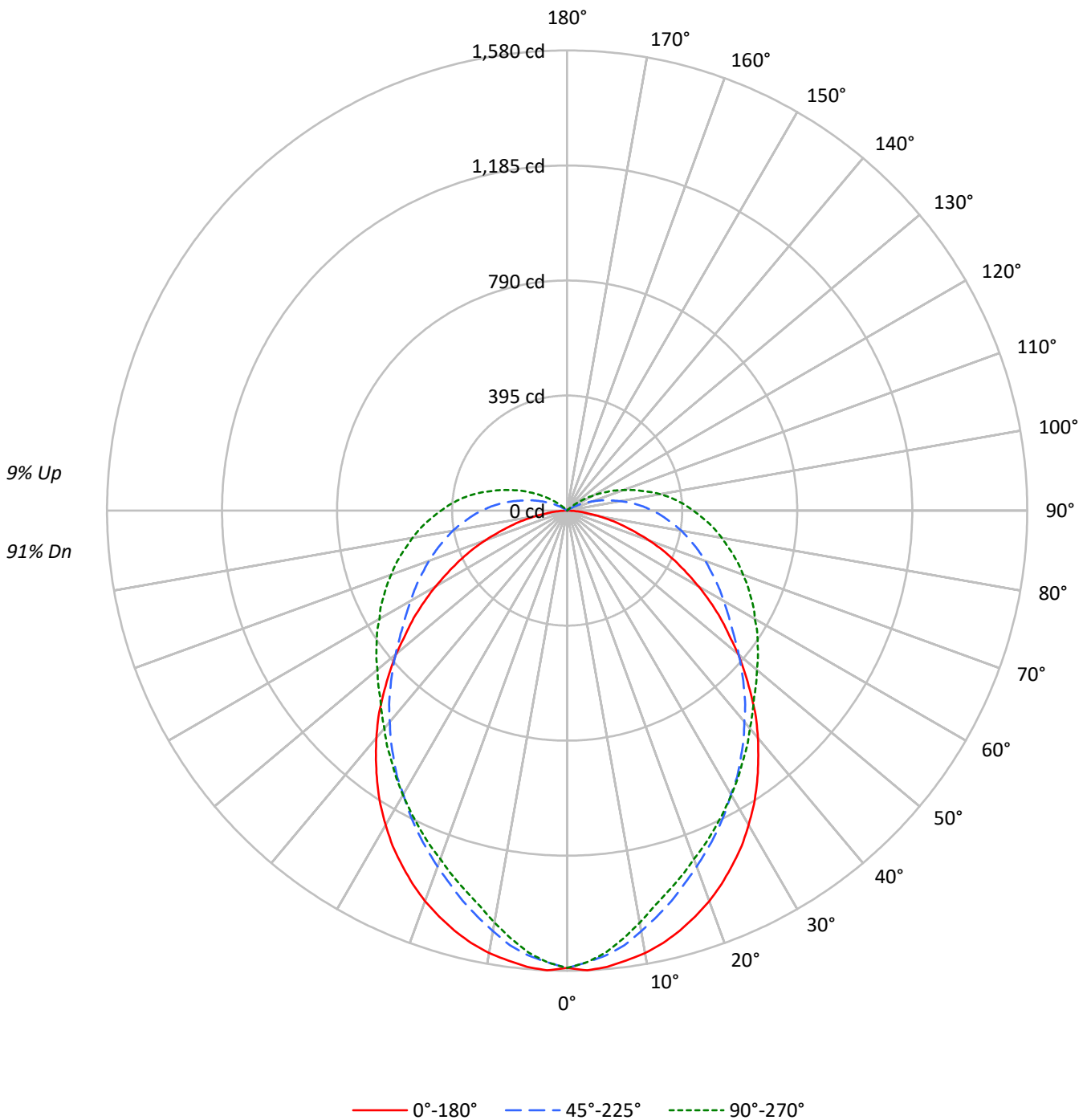
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-50-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-50-L835-CD1-U

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°	50701	50701	50701
5°	50883	39794	36572
10°	50406	32025	27623
15°	49651	26320	21784
20°	48658	21964	17818
25°	47376	18636	14943
30°	45915	15880	12704
35°	44192	13688	10900
40°	42204	11791	9451
45°	39931	10195	8288
50°	37573	8803	7410
55°	35149	7647	6698
60°	32519	6765	6063
65°	29841	6043	5543
70°	26719	5405	5063
75°	22898	4836	4629
80°	18510	4323	4232
85°	12568	3802	3863



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-50-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	3.0
10°-20°	396.2	8.1
20°-30°	573.2	11.7
30°-40°	666.8	13.6
40°-50°	678.7	13.9
50°-60°	631.5	12.9
60°-70°	549.9	11.3
70°-80°	447.7	9.2
80°-90°	339.1	6.9
90°-100°	235.2	4.8
100°-110°	138.2	2.8
110°-120°	64.8	1.3
120°-130°	18.4	0.4
130°-140°	1.0	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°	1114.8	22.8
0°-40°	1781.5	36.5
0°-60°	3091.8	63.3
0°-90°	4428.5	90.6
90°-120°	438.2	9.0
90°-150°	457.6	9.4
90°-180°	458.0	9.4
0°-180°	4886.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1573	1560	1533	1533	1523	149
15°	1494	1454	1387	1362	1350	421
25°	1343	1283	1216	1207	1202	618
35°	1137	1078	1038	1048	1051	711
45°	893	858	858	893	907	689
55°	643	640	687	769	799	574
65°	408	443	561	660	695	404
75°	198	289	450	554	591	211
85°	42	180	344	452	487	48
90°	0	131	292	398	433	2
95°	0	84	240	346	381	0
105°	0	20	136	230	262	0
115°	0	0	54	126	153	0
125°	0	0	2	42	62	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°	2	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-50-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.1	1570.1	1570.1	1570.1	1570.1
2.5°	1580.0	1572.6	1552.8	1560.2	1552.8
5°	1572.6	1560.2	1533.0	1533.0	1523.1
7.5°	1557.7	1542.9	1505.8	1493.5	1481.1
10°	1542.9	1520.6	1466.3	1451.4	1436.6
12.5°	1520.6	1488.5	1426.7	1404.4	1389.6
15°	1493.5	1453.9	1387.1	1362.4	1350.0
17.5°	1461.3	1416.8	1342.6	1322.8	1313.0
20°	1426.7	1374.8	1300.6	1283.3	1273.4
22.5°	1387.1	1327.8	1258.6	1246.2	1238.8
25°	1342.6	1283.3	1216.5	1206.6	1201.7
27.5°	1298.1	1233.8	1172.0	1167.1	1164.6
30°	1246.2	1184.4	1125.0	1127.5	1127.5
32.5°	1194.3	1132.5	1085.5	1090.4	1090.4
35°	1137.4	1078.1	1038.5	1048.4	1050.9
37.5°	1078.1	1026.1	994.0	1008.8	1016.2
40°	1018.7	971.7	947.0	969.3	976.7
42.5°	959.4	914.9	905.0	932.2	942.1
45°	892.6	858.0	858.0	892.6	907.4
47.5°	828.3	806.1	813.5	858.0	880.2
50°	766.5	749.2	769.0	825.8	850.6
52.5°	699.7	694.8	726.9	796.2	825.8
55°	642.9	640.4	687.4	769.0	798.6
57.5°	581.1	588.5	652.8	741.8	773.9
60°	521.7	536.6	620.6	714.6	744.3
62.5°	462.4	492.0	591.0	687.4	722.0
65°	408.0	442.6	561.3	660.2	694.8
67.5°	353.6	398.1	531.6	635.5	670.1
70°	299.2	358.5	504.4	608.3	642.9
72.5°	244.8	323.9	477.2	581.1	618.2
75°	197.8	289.3	450.0	553.9	591.0
77.5°	153.3	262.1	422.8	531.6	563.8
80°	111.3	232.4	398.1	504.4	539.0
82.5°	71.7	207.7	370.9	477.2	514.3
85°	42.0	180.5	343.7	452.5	487.1
87.5°	17.3	153.3	319.0	425.3	459.9
90°	0.0	131.0	291.8	398.1	432.7
92.5°	0.0	108.8	267.0	373.4	408.0
95°	0.0	84.1	239.8	346.2	380.8
97.5°	0.0	64.3	212.6	319.0	353.6
100°	0.0	49.5	185.4	286.8	323.9
102.5°	0.0	34.6	158.2	257.2	294.2
105°	0.0	19.8	136.0	230.0	262.1
107.5°	0.0	9.9	113.7	202.8	234.9
110°	0.0	2.5	91.5	175.6	205.2



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-50-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	71.7	150.8	180.5
115°	0.0	0.0	54.4	126.1	153.3
117.5°	0.0	0.0	37.1	103.8	128.6
120°	0.0	0.0	22.3	81.6	103.8
122.5°	0.0	0.0	9.9	61.8	81.6
125°	0.0	0.0	2.5	42.0	61.8
127.5°	0.0	0.0	0.0	24.7	42.0
130°	0.0	0.0	0.0	12.4	24.7
132.5°	0.0	0.0	0.0	2.5	9.9
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°	2.5	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)