

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: P289785

Luminaire Tested: **8SSRK-TS-50-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-TS-50-L835-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4653.4 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

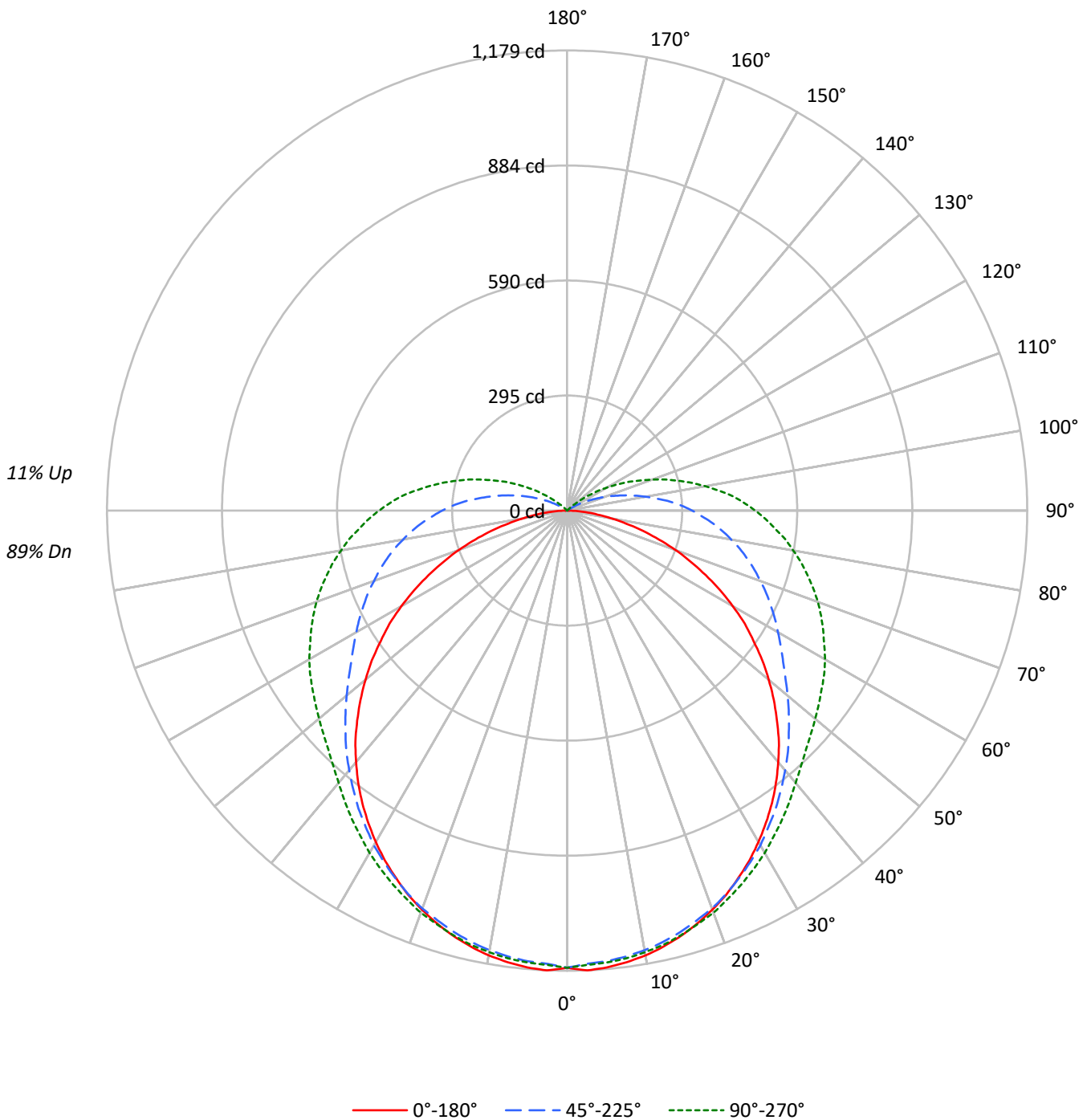
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89				
1	103	97	91	87	99	94	89	84	87	83	79	81	78	75	76	73	71	68				
2	93	83	75	68	89	80	73	67	75	68	63	70	65	60	65	61	57	54				
3	84	72	63	56	80	69	61	54	65	58	52	61	55	50	57	52	47	45				
4	76	63	54	46	73	61	52	45	57	50	44	53	47	42	50	45	40	37				
5	70	56	47	39	67	54	45	39	51	43	37	48	41	36	45	39	34	32				
6	65	50	41	34	62	49	40	34	46	38	32	43	36	31	41	35	30	28				
7	60	46	36	30	57	44	36	29	42	34	28	39	33	28	37	31	27	24				
8	56	41	33	27	53	40	32	26	38	31	25	36	29	25	34	28	24	22				
9	52	38	29	24	50	37	29	23	35	28	23	33	27	22	31	26	21	19				
10	49	35	27	21	47	34	26	21	32	25	21	31	24	20	29	23	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37823	37823	37823
5°	38015	30088	27907
10°	37809	24983	22089
15°	37504	21222	18174
20°	37110	18323	15344
25°	36635	15934	13138
30°	36125	13978	11410
35°	35547	12283	9987
40°	34859	10816	8812
45°	34025	9543	7907
50°	33054	8443	7229
55°	31885	7516	6679
60°	30562	6801	6215
65°	28656	6194	5772
70°	26425	5644	5382
75°	23280	5137	4992
80°	19292	4638	4617
85°	14184	4146	4244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	2.4
10°-20°	317.5	6.8
20°-30°	482.1	10.4
30°-40°	586.0	12.6
40°-50°	625.4	13.4
50°-60°	613.4	13.2
60°-70°	560.4	12.0
70°-80°	475.6	10.2
80°-90°	370.1	8.0
90°-100°	260.9	5.6
100°-110°	155.1	3.3
110°-120°	73.4	1.6
120°-130°	21.3	0.5
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°	910.4	19.6
0°-40°	1496.4	32.2
0°-60°	2735.3	58.8
0°-90°	4141.4	89.0
90°-120°	489.5	10.5
90°-150°	512.0	11.0
90°-180°	512.0	11.0
0°-180°	4653.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1175	1171	1159	1166	1162	112
15°	1128	1126	1118	1128	1126	318
25°	1038	1039	1040	1056	1056	479
35°	915	920	932	955	963	572
45°	761	773	803	846	866	587
55°	583	608	676	764	796	522
65°	392	442	575	685	724	388
75°	201	305	478	597	637	213
85°	47	194	375	494	535	53
90°	4	144	320	440	482	4
95°	4	97	264	382	426	3
105°	3	26	151	256	295	3
115°	2	2	61	140	174	2
125°	2	1	3	47	69	2
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°	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°	1171.3	1171.3	1171.3	1171.3	1171.3
2.5°	1179.2	1174.9	1162.2	1168.9	1165.2
5°	1174.9	1170.7	1159.1	1165.8	1162.2
7.5°	1167.0	1164.0	1152.4	1159.7	1157.3
10°	1157.3	1154.3	1143.9	1152.4	1148.8
12.5°	1143.9	1140.9	1132.4	1140.9	1139.7
15°	1128.1	1125.7	1118.4	1128.1	1126.3
17.5°	1109.3	1107.5	1101.4	1113.6	1111.1
20°	1088.1	1086.8	1085.0	1096.0	1096.6
22.5°	1065.0	1065.0	1063.8	1075.9	1076.5
25°	1038.2	1038.8	1040.1	1056.5	1056.5
27.5°	1010.9	1012.7	1015.8	1031.6	1035.2
30°	980.5	983.6	990.2	1007.3	1012.7
32.5°	948.3	953.2	960.5	981.7	987.2
35°	914.9	919.8	931.9	955.0	962.9
37.5°	879.1	884.5	900.3	926.5	936.8
40°	841.4	847.5	868.7	901.5	910.7
42.5°	803.1	811.6	837.8	873.0	887.0
45°	760.6	773.4	803.1	845.7	865.7
47.5°	718.1	733.3	770.3	822.6	846.9
50°	674.3	691.3	737.5	801.9	829.9
52.5°	630.6	649.4	705.3	782.5	812.9
55°	583.2	608.1	675.6	763.6	796.4
57.5°	539.5	566.2	648.8	744.8	780.7
60°	490.3	524.3	623.9	725.4	763.0
62.5°	441.7	482.4	600.2	705.3	742.4
65°	391.8	442.3	575.3	685.3	723.5
67.5°	342.6	401.6	552.2	664.6	704.1
70°	295.9	366.3	526.7	643.4	683.5
72.5°	246.6	335.3	503.0	620.9	661.0
75°	201.1	305.0	478.1	596.6	637.3
77.5°	154.9	276.4	453.8	572.3	614.2
80°	116.0	249.7	427.1	546.8	588.1
82.5°	79.0	223.0	401.0	520.6	563.8
85°	47.4	194.4	374.8	493.9	535.2
87.5°	21.3	169.5	346.3	466.6	509.7
90°	3.6	144.0	320.2	440.4	481.8
92.5°	4.3	120.9	293.4	412.5	453.8
95°	3.6	96.6	264.3	381.5	425.9
97.5°	3.6	75.9	233.3	351.1	391.8
100°	3.0	56.5	203.5	318.9	359.0
102.5°	3.0	40.1	176.8	287.4	327.4
105°	3.0	26.1	150.7	255.8	294.6
107.5°	3.0	14.6	125.1	225.4	264.9
110°	3.0	5.5	102.1	198.0	230.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	2.4	79.6	167.7	201.7
115°	2.4	2.4	61.4	140.3	173.7
117.5°	2.4	1.8	41.9	114.8	145.2
120°	2.4	1.8	26.1	91.7	117.9
122.5°	1.8	1.2	12.8	68.0	94.2
125°	1.8	1.2	3.0	46.8	68.6
127.5°	1.8	0.6	0.0	27.9	47.4
130°	1.2	0.6	0.0	13.4	27.9
132.5°	1.2	0.6	0.0	2.4	12.2
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)