

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: **4SSRK-TB-40-L850-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: 4SSRK-TB-40-L850-CD1-U
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3973.0 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

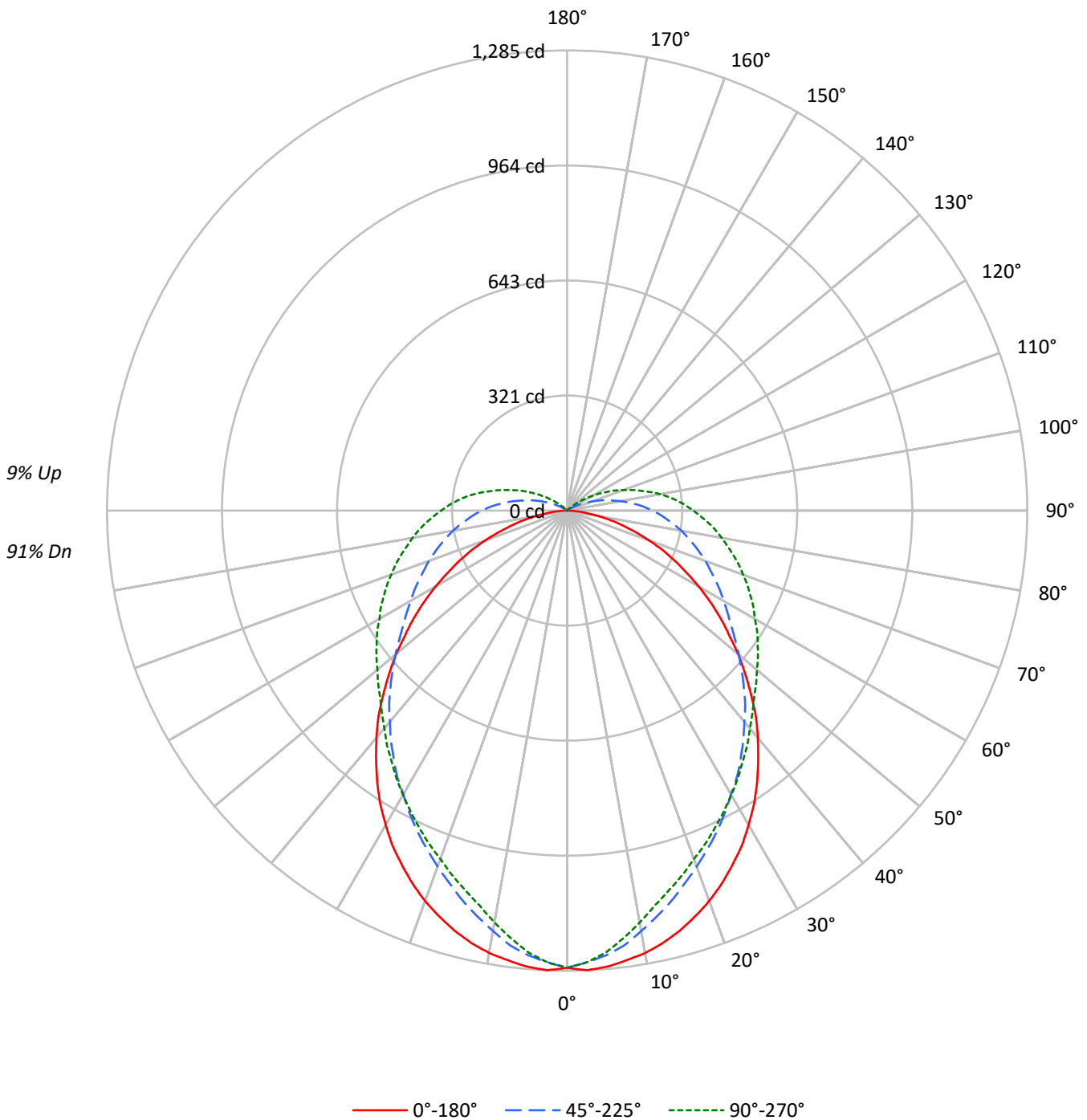
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	82453	82453	82453
5°	82597	64647	59477
10°	81676	51987	44921
15°	80300	42708	35428
20°	78540	35624	28976
25°	76311	30219	24301
30°	73791	25744	20659
35°	70845	22183	17725
40°	67473	19104	15370
45°	63639	16518	13479
50°	59662	14260	12049
55°	55549	12384	10893
60°	51104	10954	9860
65°	46531	9784	9015
70°	41223	8748	8232
75°	34725	7827	7528
80°	27225	6996	6882
85°	17167	6152	6282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.0
10°-20°	322.1	8.1
20°-30°	466.1	11.7
30°-40°	542.2	13.6
40°-50°	551.9	13.9
50°-60°	513.5	12.9
60°-70°	447.1	11.3
70°-80°	364.0	9.2
80°-90°	275.7	6.9
90°-100°	191.2	4.8
100°-110°	112.4	2.8
110°-120°	52.7	1.3
120°-130°	15.0	0.4
130°-140°	0.8	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°	906.4	22.8
0°-40°	1448.6	36.5
0°-60°	2514.0	63.3
0°-90°	3600.9	90.6
90°-120°	356.3	9.0
90°-150°	372.1	9.4
90°-180°	372.0	9.4
0°-180°	3973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1279	1269	1246	1246	1238	121
15°	1214	1182	1128	1108	1098	342
25°	1092	1044	989	981	977	503
35°	925	877	844	852	854	578
45°	726	698	698	726	738	560
55°	523	521	559	625	649	467
65°	332	360	456	537	565	329
75°	161	235	366	450	480	172
85°	34	147	280	368	396	39
90°	0	107	237	324	352	2
95°	0	68	195	282	310	0
105°	0	16	111	187	213	0
115°	0	0	44	102	125	0
125°	0	0	2	34	50	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1276.7	1276.7	1276.7	1276.7	1276.7
2.5°	1284.7	1278.7	1262.6	1268.6	1262.6
5°	1278.7	1268.6	1246.5	1246.5	1238.5
7.5°	1266.6	1254.6	1224.4	1214.4	1204.3
10°	1254.6	1236.5	1192.2	1180.2	1168.1
12.5°	1236.5	1210.3	1160.1	1142.0	1129.9
15°	1214.4	1182.2	1127.9	1107.8	1097.8
17.5°	1188.2	1152.0	1091.7	1075.6	1067.6
20°	1160.1	1117.9	1057.5	1043.5	1035.4
22.5°	1127.9	1079.7	1023.4	1013.3	1007.3
25°	1091.7	1043.5	989.2	981.1	977.1
27.5°	1055.5	1003.3	953.0	949.0	947.0
30°	1013.3	963.0	914.8	916.8	916.8
32.5°	971.1	920.8	882.6	886.6	886.6
35°	924.8	876.6	844.4	852.5	854.5
37.5°	876.6	834.4	808.2	820.3	826.3
40°	828.3	790.1	770.0	788.1	794.2
42.5°	780.1	743.9	735.9	758.0	766.0
45°	725.8	697.7	697.7	725.8	737.9
47.5°	673.5	655.4	661.5	697.7	715.8
50°	623.3	609.2	625.3	671.5	691.6
52.5°	569.0	565.0	591.1	647.4	671.5
55°	522.7	520.7	558.9	625.3	649.4
57.5°	472.5	478.5	530.8	603.2	629.3
60°	424.2	436.3	504.6	581.0	605.2
62.5°	376.0	400.1	480.5	558.9	587.1
65°	331.7	359.9	456.4	536.8	565.0
67.5°	287.5	323.7	432.3	516.7	544.9
70°	243.3	291.5	410.1	494.6	522.7
72.5°	199.0	263.4	388.0	472.5	502.6
75°	160.8	235.2	365.9	450.4	480.5
77.5°	124.7	213.1	343.8	432.3	458.4
80°	90.5	189.0	323.7	410.1	438.3
82.5°	58.3	168.9	301.6	388.0	418.2
85°	34.2	146.8	279.5	367.9	396.1
87.5°	14.1	124.7	259.4	345.8	374.0
90°	0.0	106.6	237.2	323.7	351.8
92.5°	0.0	88.5	217.1	303.6	331.7
95°	0.0	68.4	195.0	281.5	309.6
97.5°	0.0	52.3	172.9	259.4	287.5
100°	0.0	40.2	150.8	233.2	263.4
102.5°	0.0	28.1	128.7	209.1	239.3
105°	0.0	16.1	110.6	187.0	213.1
107.5°	0.0	8.0	92.5	164.9	191.0
110°	0.0	2.0	74.4	142.7	166.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	58.3	122.6	146.8
115°	0.0	0.0	44.2	102.5	124.7
117.5°	0.0	0.0	30.2	84.4	104.5
120°	0.0	0.0	18.1	66.3	84.4
122.5°	0.0	0.0	8.0	50.3	66.3
125°	0.0	0.0	2.0	34.2	50.3
127.5°	0.0	0.0	0.0	20.1	34.2
130°	0.0	0.0	0.0	10.1	20.1
132.5°	0.0	0.0	0.0	2.0	8.0
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°	2.0	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)