

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-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: 8SSRK-TB-40-L850-CD1-U
Description: 4000 LUMEN, 8 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: 3947.0 lumens
Efficiency: N/A
Efficacy: 146.1 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

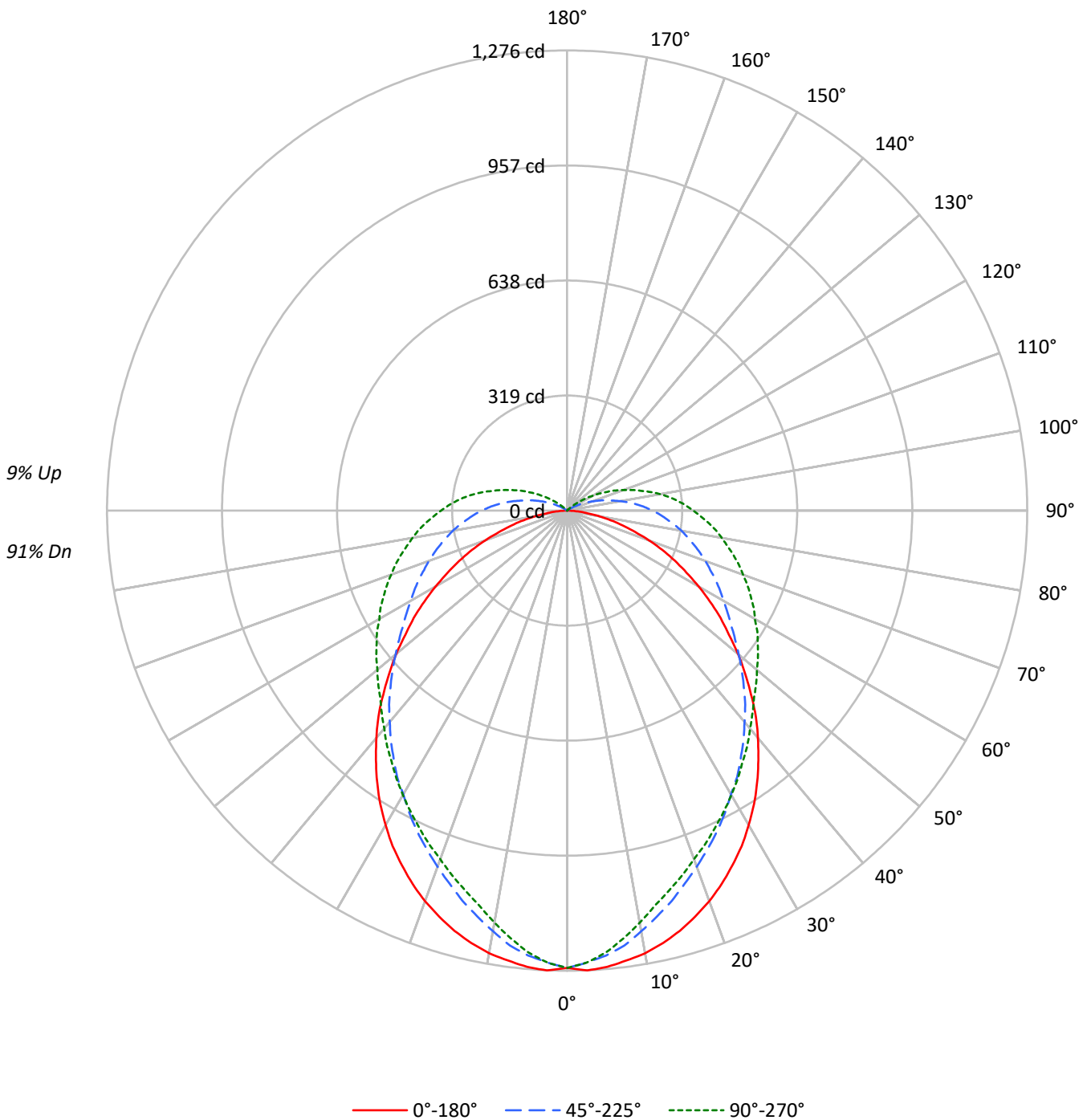
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	40955	40955	40955
5°	41102	32146	29544
10°	40719	25870	22314
15°	40107	21262	17598
20°	39306	17742	14394
25°	38272	15054	12071
30°	37091	12829	10262
35°	35699	11057	8804
40°	34092	9525	7635
45°	32258	8236	6695
50°	30353	7111	5985
55°	28391	6178	5411
60°	26274	5465	4897
65°	24107	4881	4478
70°	21584	4366	4089
75°	18499	3906	3739
80°	14951	3492	3418
85°	10174	3070	3121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	3.0
10°-20°	320.0	8.1
20°-30°	463.0	11.7
30°-40°	538.6	13.6
40°-50°	548.3	13.9
50°-60°	510.2	12.9
60°-70°	444.2	11.3
70°-80°	361.6	9.2
80°-90°	273.9	6.9
90°-100°	190.0	4.8
100°-110°	111.6	2.8
110°-120°	52.3	1.3
120°-130°	14.9	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°	900.5	22.8
0°-40°	1439.2	36.5
0°-60°	2497.6	63.3
0°-90°	3577.4	90.6
90°-120°	354.0	9.0
90°-150°	369.7	9.4
90°-180°	370.0	9.4
0°-180°	3947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1270	1260	1238	1238	1230	120
15°	1206	1174	1120	1101	1091	340
25°	1085	1037	983	975	971	499
35°	919	871	839	847	849	574
45°	721	693	693	721	733	557
55°	519	517	555	621	645	464
65°	330	358	453	533	561	327
75°	160	234	364	447	477	171
85°	34	146	278	366	394	39
90°	0	106	236	322	350	2
95°	0	68	194	280	308	0
105°	0	16	110	186	212	0
115°	0	0	44	102	124	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°	1268.3	1268.3	1268.3	1268.3	1268.3
2.5°	1276.3	1270.3	1254.4	1260.4	1254.4
5°	1270.3	1260.4	1238.4	1238.4	1230.4
7.5°	1258.4	1246.4	1216.4	1206.4	1196.4
10°	1246.4	1228.4	1184.5	1172.5	1160.5
12.5°	1228.4	1202.4	1152.5	1134.5	1122.5
15°	1206.4	1174.5	1120.5	1100.6	1090.6
17.5°	1180.5	1144.5	1084.6	1068.6	1060.6
20°	1152.5	1110.6	1050.6	1036.6	1028.7
22.5°	1120.5	1072.6	1016.7	1006.7	1000.7
25°	1084.6	1036.6	982.7	974.7	970.7
27.5°	1048.6	996.7	946.8	942.8	940.8
30°	1006.7	956.8	908.8	910.8	910.8
32.5°	964.7	914.8	876.9	880.9	880.9
35°	918.8	870.9	838.9	846.9	848.9
37.5°	870.9	828.9	803.0	814.9	820.9
40°	822.9	785.0	765.0	783.0	789.0
42.5°	775.0	739.0	731.0	753.0	761.0
45°	721.1	693.1	693.1	721.1	733.0
47.5°	669.1	651.2	657.1	693.1	711.1
50°	619.2	605.2	621.2	667.1	687.1
52.5°	565.3	561.3	587.2	643.2	667.1
55°	519.3	517.3	555.3	621.2	645.2
57.5°	469.4	475.4	527.3	599.2	625.2
60°	421.5	433.4	501.3	577.2	601.2
62.5°	373.5	397.5	477.4	555.3	583.2
65°	329.6	357.5	453.4	533.3	561.3
67.5°	285.6	321.6	429.4	513.3	541.3
70°	241.7	289.6	407.5	491.4	519.3
72.5°	197.7	261.7	385.5	469.4	499.3
75°	159.8	233.7	363.5	447.4	477.4
77.5°	123.8	211.7	341.6	429.4	455.4
80°	89.9	187.8	321.6	407.5	435.4
82.5°	57.9	167.8	299.6	385.5	415.5
85°	34.0	145.8	277.6	365.5	393.5
87.5°	14.0	123.8	257.7	343.6	371.5
90°	0.0	105.9	235.7	321.6	349.5
92.5°	0.0	87.9	215.7	301.6	329.6
95°	0.0	67.9	193.7	279.6	307.6
97.5°	0.0	51.9	171.8	257.7	285.6
100°	0.0	39.9	149.8	231.7	261.7
102.5°	0.0	28.0	127.8	207.7	237.7
105°	0.0	16.0	109.9	185.8	211.7
107.5°	0.0	8.0	91.9	163.8	189.8
110°	0.0	2.0	73.9	141.8	165.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	57.9	121.8	145.8
115°	0.0	0.0	43.9	101.9	123.8
117.5°	0.0	0.0	30.0	83.9	103.9
120°	0.0	0.0	18.0	65.9	83.9
122.5°	0.0	0.0	8.0	49.9	65.9
125°	0.0	0.0	2.0	34.0	49.9
127.5°	0.0	0.0	0.0	20.0	34.0
130°	0.0	0.0	0.0	10.0	20.0
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)