

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-10-L840-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-10-L840-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10021.5 lumens
Efficiency: N/A
Efficacy: 139.4 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

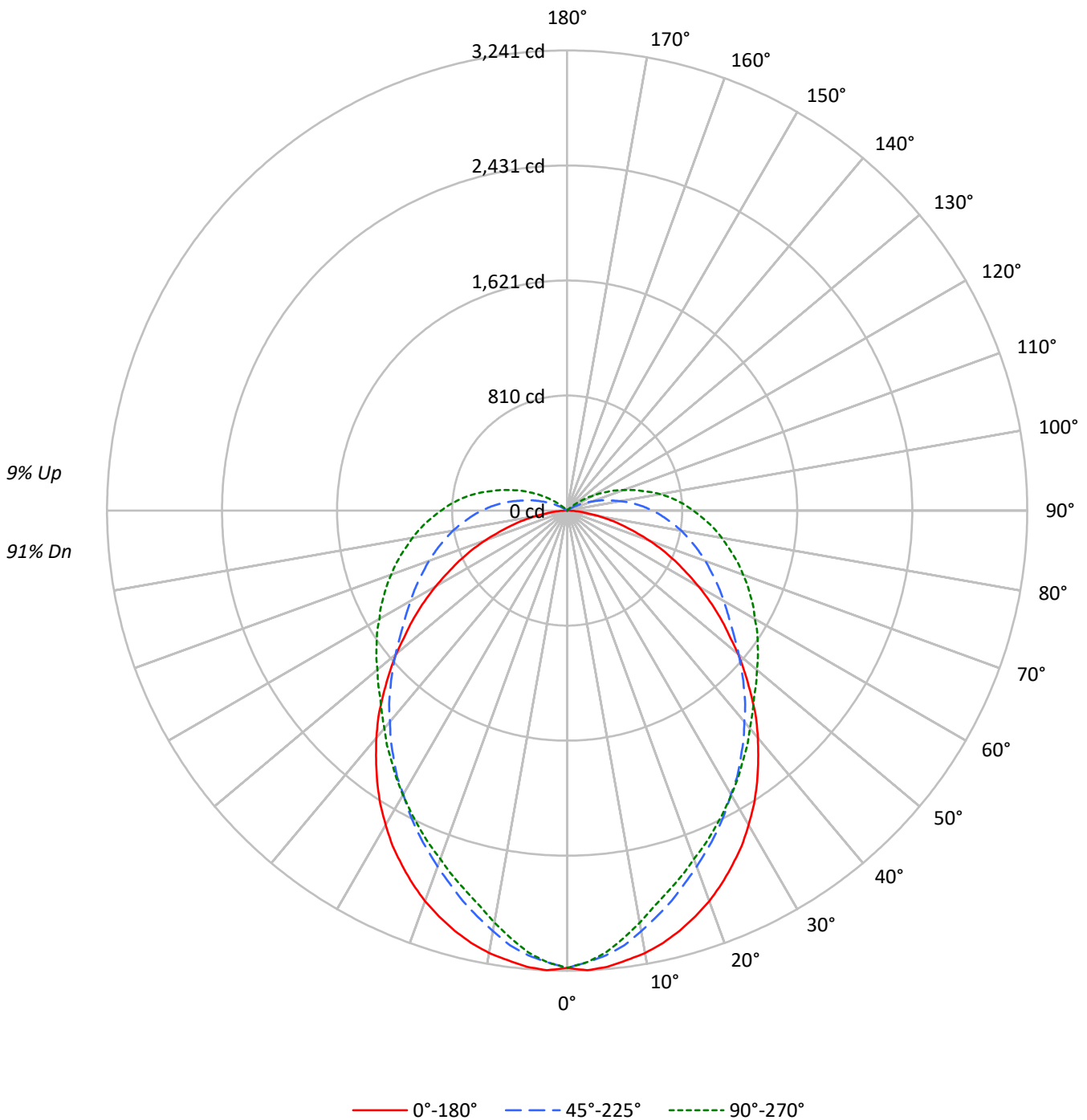
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	103988	103988	103988
5°	104361	81617	75011
10°	103383	65681	56655
15°	101833	53984	44681
20°	99799	45049	36544
25°	97170	38224	30649
30°	94173	32572	26055
35°	90638	28075	22354
40°	86562	24183	19384
45°	81901	20911	16999
50°	77064	18055	15196
55°	72085	15684	13738
60°	66703	13876	12435
65°	61204	12394	11368
70°	54796	11086	10383
75°	46965	9918	9494
80°	37952	8867	8680
85°	25795	7797	7923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.1	3.0
10°-20°	812.6	8.1
20°-30°	1175.7	11.7
30°-40°	1367.6	13.6
40°-50°	1392.1	13.9
50°-60°	1295.3	12.9
60°-70°	1127.9	11.3
70°-80°	918.1	9.2
80°-90°	695.5	6.9
90°-100°	482.3	4.8
100°-110°	283.5	2.8
110°-120°	132.9	1.3
120°-130°	37.8	0.4
130°-140°	2.1	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°	2286.4	22.8
0°-40°	3654.0	36.5
0°-60°	6341.3	63.3
0°-90°	9082.9	90.6
90°-120°	898.7	9.0
90°-150°	938.6	9.4
90°-180°	939.0	9.4
0°-180°	10021.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3220	3220	3220	3220	3220	
5°	3225	3200	3144	3144	3124	306
15°	3063	2982	2845	2794	2769	863
25°	2754	2632	2495	2475	2465	1268
35°	2333	2211	2130	2150	2155	1457
45°	1831	1760	1760	1831	1861	1413
55°	1318	1314	1410	1577	1638	1177
65°	837	908	1151	1354	1425	829
75°	406	593	923	1136	1212	433
85°	86	370	705	928	999	99
90°	0	269	598	816	888	5
95°	0	172	492	710	781	0
105°	0	41	279	472	538	0
115°	0	0	112	259	314	0
125°	0	0	5	86	127	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°	3220.3	3220.3	3220.3	3220.3	3220.3
2.5°	3240.6	3225.4	3184.8	3200.0	3184.8
5°	3225.4	3200.0	3144.2	3144.2	3123.9
7.5°	3194.9	3164.5	3088.4	3063.1	3037.7
10°	3164.5	3118.9	3007.3	2976.9	2946.5
12.5°	3118.9	3052.9	2926.2	2880.5	2850.1
15°	3063.1	2982.0	2845.0	2794.3	2769.0
17.5°	2997.2	2905.9	2753.7	2713.2	2692.9
20°	2926.2	2819.7	2667.5	2632.0	2611.7
22.5°	2845.0	2723.3	2581.3	2556.0	2540.7
25°	2753.7	2632.0	2495.1	2474.8	2464.7
27.5°	2662.5	2530.6	2403.8	2393.7	2388.6
30°	2556.0	2429.2	2307.5	2312.5	2312.5
32.5°	2449.5	2322.7	2226.3	2236.5	2236.5
35°	2332.8	2211.1	2130.0	2150.2	2155.3
37.5°	2211.1	2104.6	2038.7	2069.1	2084.3
40°	2089.4	1993.0	1942.3	1988.0	2003.2
42.5°	1967.7	1876.4	1856.1	1911.9	1932.2
45°	1830.8	1759.8	1759.8	1830.8	1861.2
47.5°	1698.9	1653.3	1668.5	1759.8	1805.4
50°	1572.1	1536.6	1577.2	1693.8	1744.5
52.5°	1435.2	1425.0	1491.0	1633.0	1693.8
55°	1318.5	1313.5	1409.8	1577.2	1638.0
57.5°	1191.8	1207.0	1338.8	1521.4	1587.3
60°	1070.1	1100.5	1272.9	1465.6	1526.5
62.5°	948.3	1009.2	1212.1	1409.8	1480.8
65°	836.8	907.8	1151.2	1354.0	1425.0
67.5°	725.2	816.5	1090.3	1303.3	1374.3
70°	613.6	735.3	1034.6	1247.6	1318.5
72.5°	502.1	664.3	978.8	1191.8	1267.8
75°	405.7	593.3	923.0	1136.0	1212.1
77.5°	314.4	537.6	867.2	1090.3	1156.3
80°	228.2	476.7	816.5	1034.6	1105.6
82.5°	147.1	426.0	760.7	978.8	1054.8
85°	86.2	370.2	704.9	928.1	999.1
87.5°	35.5	314.4	654.2	872.3	943.3
90°	0.0	268.8	598.4	816.5	887.5
92.5°	0.0	223.1	547.7	765.8	836.8
95°	0.0	172.4	491.9	710.0	781.0
97.5°	0.0	131.9	436.1	654.2	725.2
100°	0.0	101.4	380.4	588.3	664.3
102.5°	0.0	71.0	324.6	527.4	603.5
105°	0.0	40.6	278.9	471.6	537.6
107.5°	0.0	20.3	233.3	415.9	481.8
110°	0.0	5.1	187.6	360.1	420.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	147.1	309.4	370.2
115°	0.0	0.0	111.6	258.6	314.4
117.5°	0.0	0.0	76.1	213.0	263.7
120°	0.0	0.0	45.6	167.4	213.0
122.5°	0.0	0.0	20.3	126.8	167.4
125°	0.0	0.0	5.1	86.2	126.8
127.5°	0.0	0.0	0.0	50.7	86.2
130°	0.0	0.0	0.0	25.4	50.7
132.5°	0.0	0.0	0.0	5.1	20.3
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°	5.1	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)