

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-12-L830-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-12-L830-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10757.2 lumens
Efficiency: N/A
Efficacy: 133.0 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

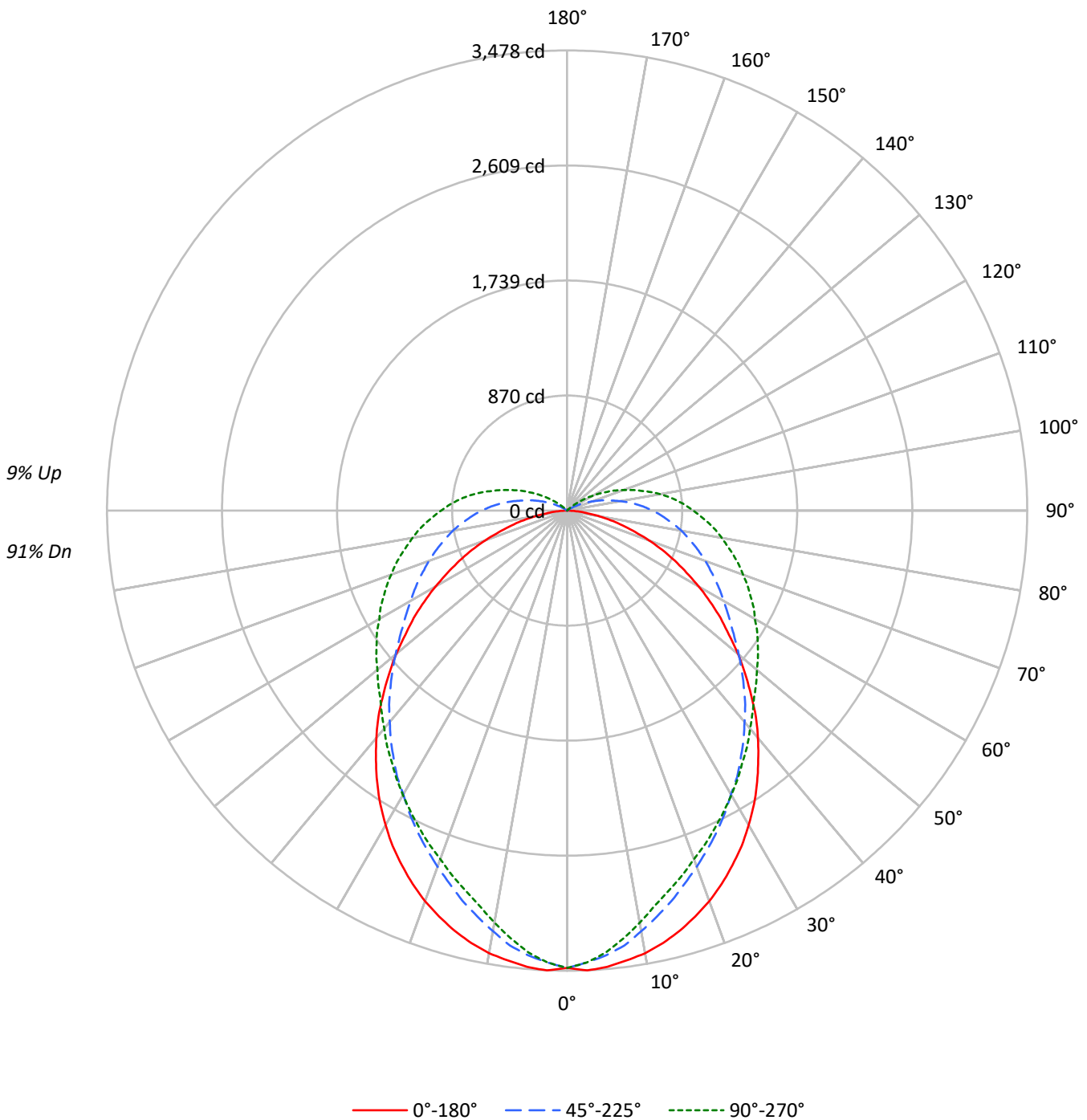
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	111622	111622	111622
5°	112022	87611	80519
10°	110975	70503	60814
15°	109310	57948	47960
20°	107125	48357	39228
25°	104305	41030	32899
30°	101085	34964	27968
35°	97294	30135	23996
40°	92918	25958	20807
45°	87913	22446	18247
50°	82721	19381	16312
55°	77383	16836	14747
60°	71596	14895	13347
65°	65695	13304	12203
70°	58823	11899	11146
75°	50415	10646	10191
80°	40746	9517	9317
85°	27680	8370	8504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	3.0
10°-20°	872.2	8.1
20°-30°	1262.0	11.7
30°-40°	1468.0	13.6
40°-50°	1494.3	13.9
50°-60°	1390.4	12.9
60°-70°	1210.7	11.3
70°-80°	985.5	9.2
80°-90°	746.6	6.9
90°-100°	517.7	4.8
100°-110°	304.3	2.8
110°-120°	142.7	1.3
120°-130°	40.6	0.4
130°-140°	2.2	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°	2454.3	22.8
0°-40°	3922.2	36.5
0°-60°	6806.9	63.3
0°-90°	9749.7	90.6
90°-120°	964.7	9.0
90°-150°	1007.5	9.4
90°-180°	1007.0	9.4
0°-180°	10757.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3457	3457	3457	3457	3457	
5°	3462	3435	3375	3375	3353	328
15°	3288	3201	3054	3000	2972	926
25°	2956	2825	2678	2656	2646	1361
35°	2504	2373	2286	2308	2314	1564
45°	1965	1889	1889	1965	1998	1517
55°	1415	1410	1513	1693	1758	1263
65°	898	974	1236	1454	1530	890
75°	436	637	991	1219	1301	465
85°	92	397	757	996	1072	107
90°	0	288	642	876	953	5
95°	0	185	528	762	838	0
105°	0	44	299	506	577	0
115°	0	0	120	278	338	0
125°	0	0	5	92	136	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°	3456.7	3456.7	3456.7	3456.7	3456.7
2.5°	3478.5	3462.2	3418.6	3435.0	3418.6
5°	3462.2	3435.0	3375.1	3375.1	3353.3
7.5°	3429.5	3396.9	3315.2	3288.0	3260.8
10°	3396.9	3347.9	3228.1	3195.4	3162.8
12.5°	3347.9	3277.1	3141.0	3092.0	3059.3
15°	3288.0	3200.9	3053.9	2999.5	2972.2
17.5°	3217.2	3119.2	2955.9	2912.4	2890.6
20°	3141.0	3026.7	2863.4	2825.3	2803.5
22.5°	3053.9	2923.3	2770.8	2743.6	2727.3
25°	2955.9	2825.3	2678.3	2656.5	2645.6
27.5°	2857.9	2716.4	2580.3	2569.4	2564.0
30°	2743.6	2607.5	2476.9	2482.3	2482.3
32.5°	2629.3	2493.2	2389.8	2400.7	2400.7
35°	2504.1	2373.4	2286.3	2308.1	2313.6
37.5°	2373.4	2259.1	2188.4	2221.0	2237.3
40°	2242.8	2139.4	2084.9	2133.9	2150.3
42.5°	2112.1	2014.2	1992.4	2052.3	2074.0
45°	1965.2	1889.0	1889.0	1965.2	1997.8
47.5°	1823.6	1774.6	1791.0	1889.0	1937.9
50°	1687.5	1649.4	1693.0	1818.2	1872.6
52.5°	1540.6	1529.7	1600.4	1752.9	1818.2
55°	1415.4	1409.9	1513.3	1693.0	1758.3
57.5°	1279.3	1295.6	1437.1	1633.1	1703.9
60°	1148.6	1181.3	1366.4	1573.2	1638.5
62.5°	1018.0	1083.3	1301.0	1513.3	1589.6
65°	898.2	974.4	1235.7	1453.5	1529.7
67.5°	778.4	876.4	1170.4	1399.0	1475.2
70°	658.7	789.3	1110.5	1339.1	1415.4
72.5°	538.9	713.1	1050.6	1279.3	1360.9
75°	435.5	636.9	990.7	1219.4	1301.0
77.5°	337.5	577.0	930.9	1170.4	1241.2
80°	245.0	511.7	876.4	1110.5	1186.7
82.5°	157.9	457.3	816.6	1050.6	1132.3
85°	92.5	397.4	756.7	996.2	1072.4
87.5°	38.1	337.5	702.2	936.3	1012.5
90°	0.0	288.5	642.4	876.4	952.6
92.5°	0.0	239.5	587.9	822.0	898.2
95°	0.0	185.1	528.0	762.1	838.3
97.5°	0.0	141.5	468.2	702.2	778.4
100°	0.0	108.9	408.3	631.5	713.1
102.5°	0.0	76.2	348.4	566.1	647.8
105°	0.0	43.5	299.4	506.3	577.0
107.5°	0.0	21.8	250.4	446.4	517.1
110°	0.0	5.4	201.4	386.5	451.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	157.9	332.1	397.4
115°	0.0	0.0	119.8	277.6	337.5
117.5°	0.0	0.0	81.7	228.6	283.1
120°	0.0	0.0	49.0	179.6	228.6
122.5°	0.0	0.0	21.8	136.1	179.6
125°	0.0	0.0	5.4	92.5	136.1
127.5°	0.0	0.0	0.0	54.4	92.5
130°	0.0	0.0	0.0	27.2	54.4
132.5°	0.0	0.0	0.0	5.4	21.8
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°	5.4	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)