

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-80-L835-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-80-L835-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8030.9 lumens
Efficiency: N/A
Efficacy: 141.8 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

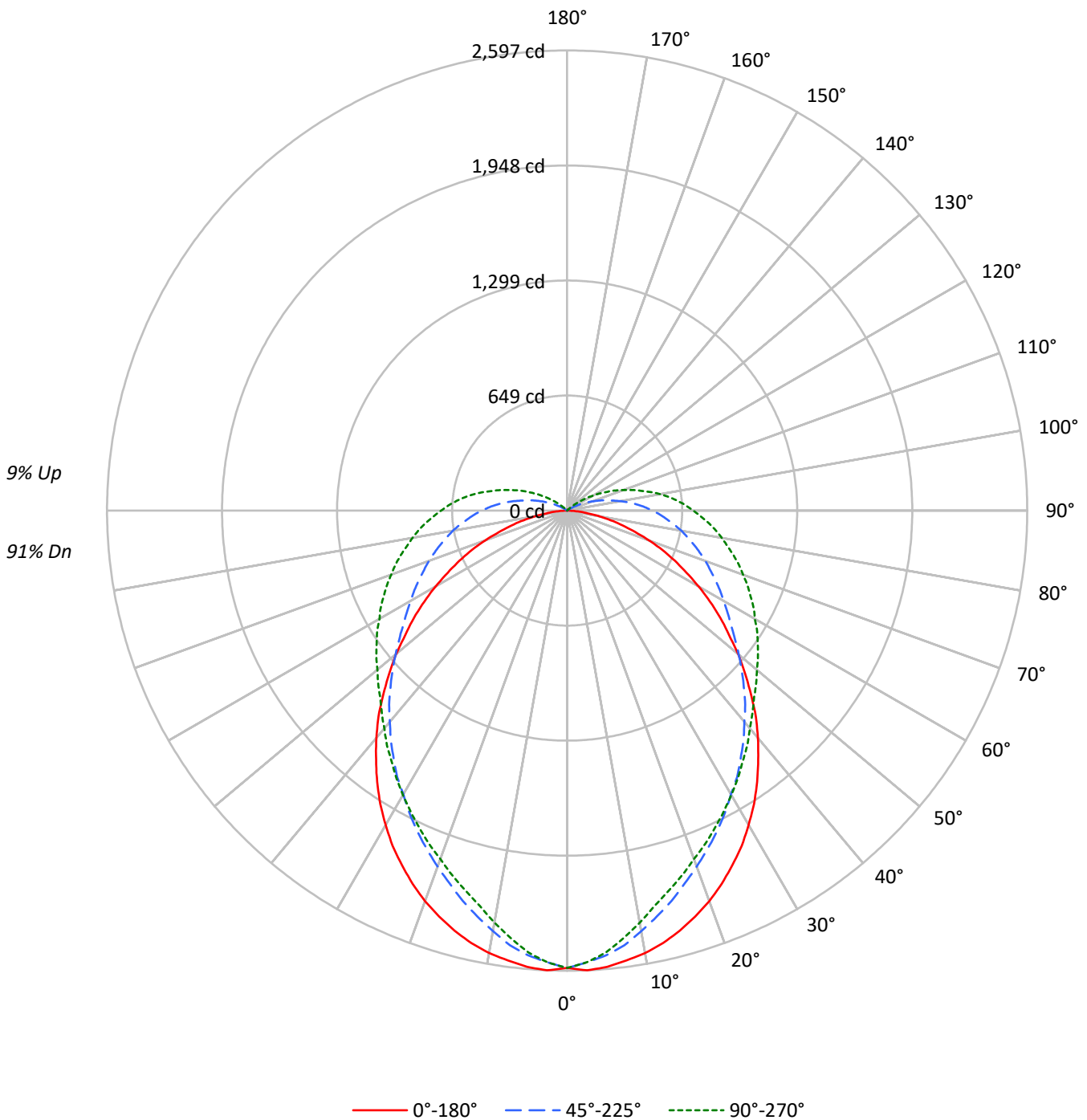
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	83335	83335	83335
5°	83630	65406	60111
10°	82850	52636	45401
15°	81607	43261	35806
20°	79973	36101	29286
25°	77871	30631	24561
30°	75467	26102	20880
35°	72637	22498	17914
40°	69369	19379	15533
45°	65631	16757	13623
50°	61755	14469	12178
55°	57766	12569	11010
60°	53451	11120	9965
65°	49048	9932	9110
70°	43910	8884	8320
75°	37635	7949	7608
80°	30418	7105	6956
85°	20678	6248	6349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.9	3.0
10°-20°	651.2	8.1
20°-30°	942.1	11.7
30°-40°	1095.9	13.6
40°-50°	1115.5	13.9
50°-60°	1038.0	12.9
60°-70°	903.9	11.3
70°-80°	735.8	9.2
80°-90°	557.4	6.9
90°-100°	386.5	4.8
100°-110°	227.2	2.8
110°-120°	106.5	1.3
120°-130°	30.3	0.4
130°-140°	1.7	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°	1832.2	22.8
0°-40°	2928.2	36.5
0°-60°	5081.7	63.3
0°-90°	7278.7	90.6
90°-120°	720.2	9.0
90°-150°	752.2	9.4
90°-180°	752.0	9.4
0°-180°	8030.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2581	2581	2581	2581	2581	
5°	2585	2564	2520	2520	2503	245
15°	2455	2390	2280	2239	2219	691
25°	2207	2109	2000	1983	1975	1016
35°	1870	1772	1707	1723	1727	1168
45°	1467	1410	1410	1467	1492	1133
55°	1057	1053	1130	1264	1313	943
65°	671	728	922	1085	1142	664
75°	325	476	740	910	971	347
85°	69	297	565	744	801	80
90°	0	215	480	654	711	4
95°	0	138	394	569	626	0
105°	0	32	224	378	431	0
115°	0	0	89	207	252	0
125°	0	0	4	69	102	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°	4	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 8SSRK-TB-80-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2580.7	2580.7	2580.7	2580.7	2580.7
2.5°	2596.9	2584.7	2552.2	2564.4	2552.2
5°	2584.7	2564.4	2519.7	2519.7	2503.4
7.5°	2560.3	2536.0	2475.0	2454.7	2434.3
10°	2536.0	2499.4	2410.0	2385.6	2361.2
12.5°	2499.4	2446.5	2344.9	2308.4	2284.0
15°	2454.7	2389.6	2279.9	2239.3	2219.0
17.5°	2401.8	2328.7	2206.8	2174.3	2158.0
20°	2344.9	2259.6	2137.7	2109.2	2093.0
22.5°	2279.9	2182.4	2068.6	2048.3	2036.1
25°	2206.8	2109.2	1999.5	1983.2	1975.1
27.5°	2133.6	2027.9	1926.3	1918.2	1914.2
30°	2048.3	1946.7	1849.1	1853.2	1853.2
32.5°	1962.9	1861.3	1784.1	1792.2	1792.2
35°	1869.5	1771.9	1706.9	1723.1	1727.2
37.5°	1771.9	1686.6	1633.7	1658.1	1670.3
40°	1674.4	1597.2	1556.5	1593.1	1605.3
42.5°	1576.8	1503.7	1487.4	1532.1	1548.4
45°	1467.1	1410.2	1410.2	1467.1	1491.5
47.5°	1361.4	1324.9	1337.1	1410.2	1446.8
50°	1259.8	1231.4	1263.9	1357.4	1398.0
52.5°	1150.1	1142.0	1194.8	1308.6	1357.4
55°	1056.6	1052.6	1129.8	1263.9	1312.7
57.5°	955.0	967.2	1072.9	1219.2	1272.0
60°	857.5	881.9	1020.1	1174.5	1223.3
62.5°	760.0	808.7	971.3	1129.8	1186.7
65°	670.6	727.5	922.5	1085.1	1142.0
67.5°	581.2	654.3	873.8	1044.5	1101.4
70°	491.7	589.3	829.1	999.7	1056.6
72.5°	402.3	532.4	784.4	955.0	1016.0
75°	325.1	475.5	739.7	910.3	971.3
77.5°	252.0	430.8	694.9	873.8	926.6
80°	182.9	382.0	654.3	829.1	886.0
82.5°	117.9	341.4	609.6	784.4	845.3
85°	69.1	296.7	564.9	743.7	800.6
87.5°	28.4	252.0	524.3	699.0	755.9
90°	0.0	215.4	479.6	654.3	711.2
92.5°	0.0	178.8	438.9	613.7	670.6
95°	0.0	138.2	394.2	569.0	625.9
97.5°	0.0	105.7	349.5	524.3	581.2
100°	0.0	81.3	304.8	471.4	532.4
102.5°	0.0	56.9	260.1	422.7	483.6
105°	0.0	32.5	223.5	378.0	430.8
107.5°	0.0	16.3	186.9	333.2	386.1
110°	0.0	4.1	150.4	288.5	337.3



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-80-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	117.9	247.9	296.7
115°	0.0	0.0	89.4	207.3	252.0
117.5°	0.0	0.0	61.0	170.7	211.3
120°	0.0	0.0	36.6	134.1	170.7
122.5°	0.0	0.0	16.3	101.6	134.1
125°	0.0	0.0	4.1	69.1	101.6
127.5°	0.0	0.0	0.0	40.6	69.1
130°	0.0	0.0	0.0	20.3	40.6
132.5°	0.0	0.0	0.0	4.1	16.3
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°	4.1	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)