

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: P289801

Luminaire Tested: **8SSRK-TS-80-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-TS-80-L835-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7648.5 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

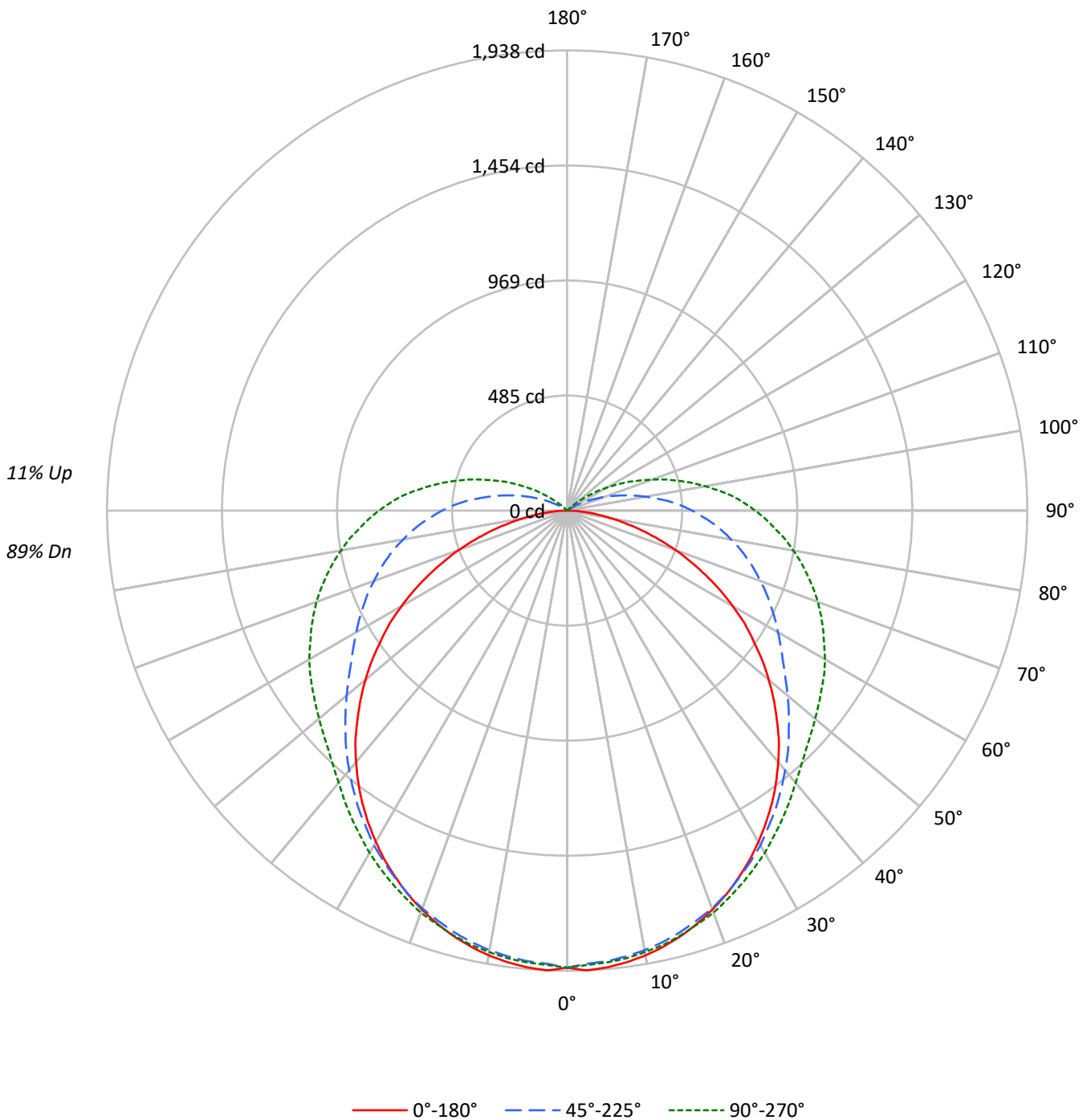
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89				
1	103	97	91	87	99	94	89	84	87	83	79	81	78	75	76	73	71	68				
2	93	83	75	68	89	80	73	67	75	68	63	70	65	60	65	61	57	54				
3	84	72	63	56	80	69	61	54	65	58	52	61	55	50	57	52	47	45				
4	76	63	54	46	73	61	52	45	57	50	44	53	47	42	50	45	40	37				
5	70	56	47	39	67	54	45	39	51	43	37	48	41	36	45	39	34	32				
6	65	50	41	34	62	49	40	34	46	38	32	43	36	31	41	35	30	28				
7	60	46	36	30	57	44	36	29	42	34	28	39	33	28	37	31	27	24				
8	56	41	33	27	53	40	32	26	38	31	25	36	29	25	34	28	24	22				
9	52	38	29	24	50	37	29	23	35	28	23	33	27	22	31	26	21	19				
10	49	35	27	21	47	34	26	21	32	25	21	31	24	20	29	23	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	62164	62164	62164
5°	62482	49455	45867
10°	62144	41065	36306
15°	61646	34882	29873
20°	60990	30118	25219
25°	60217	26189	21593
30°	59378	22975	18754
35°	58428	20189	16415
40°	57297	17778	14483
45°	55923	15685	12996
50°	54333	13877	11882
55°	52408	12353	10979
60°	50228	11179	10216
65°	47102	10180	9487
70°	43428	9276	8845
75°	38260	8444	8204
80°	31715	7623	7589
85°	23311	6815	6976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	2.4
10°-20°	521.8	6.8
20°-30°	792.4	10.4
30°-40°	963.2	12.6
40°-50°	1028.0	13.4
50°-60°	1008.2	13.2
60°-70°	921.1	12.0
70°-80°	781.7	10.2
80°-90°	608.3	8.0
90°-100°	428.9	5.6
100°-110°	255.0	3.3
110°-120°	120.7	1.6
120°-130°	35.0	0.5
130°-140°	2.0	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°	1496.4	19.6
0°-40°	2459.6	32.2
0°-60°	4495.8	58.8
0°-90°	6806.9	89.0
90°-120°	804.6	10.5
90°-150°	841.6	11.0
90°-180°	842.0	11.0
0°-180°	7648.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1925	1925	1925	1925	1925	
5°	1931	1924	1905	1916	1910	183
15°	1854	1850	1838	1854	1851	523
25°	1706	1708	1710	1736	1736	787
35°	1504	1512	1532	1570	1583	940
45°	1250	1271	1320	1390	1423	964
55°	959	1000	1110	1255	1309	858
65°	644	727	946	1126	1189	638
75°	330	501	786	980	1047	350
85°	78	320	616	812	880	87
90°	6	237	526	724	792	7
95°	6	159	434	627	700	5
105°	5	43	248	420	484	5
115°	4	4	101	231	286	4
125°	3	2	5	77	113	3
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	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°	1925.1	1925.1	1925.1	1925.1	1925.1
2.5°	1938.1	1931.1	1910.2	1921.2	1915.2
5°	1931.1	1924.1	1905.2	1916.2	1910.2
7.5°	1918.2	1913.2	1894.2	1906.2	1902.2
10°	1902.2	1897.2	1880.2	1894.2	1888.2
12.5°	1880.2	1875.2	1861.2	1875.2	1873.2
15°	1854.3	1850.3	1838.3	1854.3	1851.3
17.5°	1823.3	1820.3	1810.3	1830.3	1826.3
20°	1788.3	1786.4	1783.4	1801.3	1802.3
22.5°	1750.4	1750.4	1748.4	1768.4	1769.4
25°	1706.5	1707.5	1709.5	1736.4	1736.4
27.5°	1661.5	1664.5	1669.5	1695.5	1701.5
30°	1611.6	1616.6	1627.6	1655.5	1664.5
32.5°	1558.7	1566.7	1578.7	1613.6	1622.6
35°	1503.8	1511.8	1531.7	1569.7	1582.7
37.5°	1444.9	1453.8	1479.8	1522.7	1539.7
40°	1383.0	1392.9	1427.9	1481.8	1496.8
42.5°	1320.0	1334.0	1377.0	1434.9	1457.8
45°	1250.1	1271.1	1320.0	1389.9	1422.9
47.5°	1180.3	1205.2	1266.1	1352.0	1391.9
50°	1108.4	1136.3	1212.2	1318.0	1364.0
52.5°	1036.5	1067.4	1159.3	1286.1	1336.0
55°	958.6	999.5	1110.4	1255.1	1309.1
57.5°	886.7	930.6	1066.4	1224.2	1283.1
60°	805.8	861.7	1025.5	1192.2	1254.1
62.5°	725.9	792.8	986.5	1159.3	1220.2
65°	644.0	726.9	945.6	1126.3	1189.2
67.5°	563.2	660.0	907.7	1092.4	1157.3
70°	486.3	602.1	865.7	1057.4	1123.3
72.5°	405.4	551.2	826.8	1020.5	1086.4
75°	330.5	501.3	785.8	980.5	1047.4
77.5°	254.6	454.3	745.9	940.6	1009.5
80°	190.7	410.4	702.0	898.7	966.6
82.5°	129.8	366.5	659.0	855.7	926.6
85°	77.9	319.5	616.1	811.8	879.7
87.5°	34.9	278.6	569.2	766.9	837.8
90°	6.0	236.6	526.2	723.9	791.8
92.5°	7.0	198.7	482.3	678.0	745.9
95°	6.0	158.8	434.4	627.1	700.0
97.5°	6.0	124.8	383.4	577.1	644.0
100°	5.0	92.9	334.5	524.2	590.1
102.5°	5.0	65.9	290.6	472.3	538.2
105°	5.0	42.9	247.6	420.4	484.3
107.5°	5.0	24.0	205.7	370.5	435.4
110°	5.0	9.0	167.8	325.5	379.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.0	4.0	130.8	275.6	331.5
115°	4.0	4.0	100.9	230.7	285.6
117.5°	4.0	3.0	68.9	188.7	238.6
120°	4.0	3.0	42.9	150.8	193.7
122.5°	3.0	2.0	21.0	111.8	154.8
125°	3.0	2.0	5.0	76.9	112.8
127.5°	3.0	1.0	0.0	45.9	77.9
130°	2.0	1.0	0.0	22.0	45.9
132.5°	2.0	1.0	0.0	4.0	20.0
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°	0.0	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)