

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: **4SSRK-TB-80-L940-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: 4SSRK-TB-80-L940-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6804.4 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

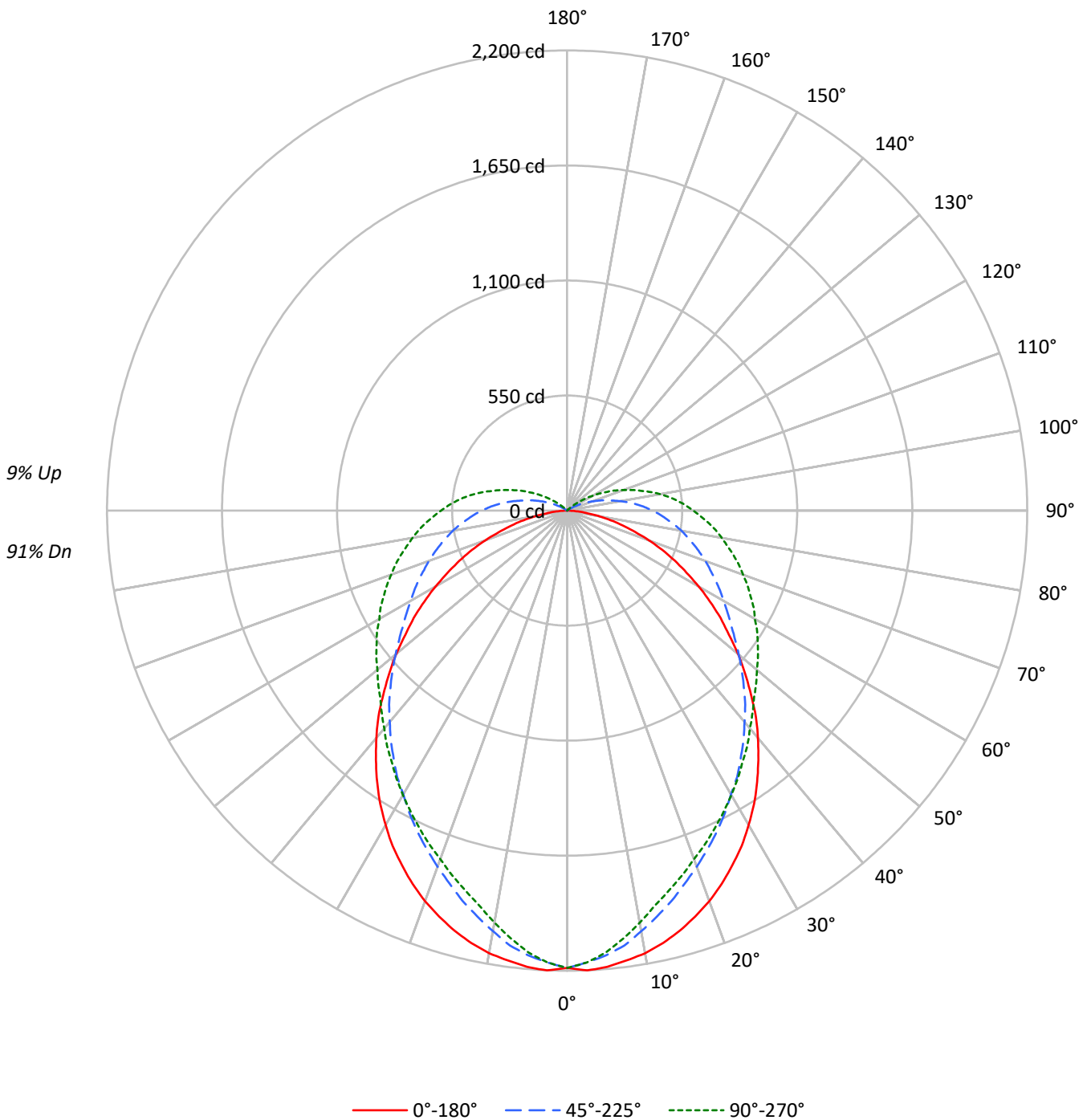
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-80-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-80-L940-CD1-U

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°	141211	141211	141211
5°	141461	110721	101863
10°	139882	89038	76935
15°	137523	73144	60675
20°	134508	61014	49626
25°	130694	51753	41621
30°	126376	44089	35383
35°	121337	37993	30356
40°	115566	32720	26321
45°	108987	28287	23084
50°	102172	24421	20637
55°	95146	21212	18656
60°	87523	18763	16885
65°	79708	16755	15438
70°	70585	14983	14100
75°	59494	13405	12893
80°	46629	11982	11788
85°	29364	10534	10758



TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-80-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	3.0
10°-20°	551.7	8.1
20°-30°	798.3	11.7
30°-40°	928.6	13.6
40°-50°	945.2	13.9
50°-60°	879.5	12.9
60°-70°	765.8	11.3
70°-80°	623.4	9.2
80°-90°	472.2	6.9
90°-100°	327.5	4.8
100°-110°	192.5	2.8
110°-120°	90.3	1.3
120°-130°	25.7	0.4
130°-140°	1.4	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°	1552.4	22.8
0°-40°	2481.0	36.5
0°-60°	4305.6	63.3
0°-90°	6167.1	90.6
90°-120°	610.2	9.0
90°-150°	637.3	9.4
90°-180°	637.0	9.4
0°-180°	6804.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2186	2186	2186	2186	2186	
5°	2190	2173	2135	2135	2121	208
15°	2080	2025	1932	1897	1880	586
25°	1870	1787	1694	1680	1674	861
35°	1584	1501	1446	1460	1463	989
45°	1243	1195	1195	1243	1264	960
55°	895	892	957	1071	1112	799
65°	568	616	782	919	968	563
75°	276	403	627	771	823	294
85°	58	251	479	630	678	67
90°	0	182	406	554	603	3
95°	0	117	334	482	530	0
105°	0	28	189	320	365	0
115°	0	0	76	176	214	0
125°	0	0	3	58	86	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°	3	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-80-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2186.5	2186.5	2186.5	2186.5	2186.5
2.5°	2200.3	2190.0	2162.4	2172.8	2162.4
5°	2190.0	2172.8	2134.9	2134.9	2121.1
7.5°	2169.3	2148.7	2097.0	2079.8	2062.6
10°	2148.7	2117.7	2041.9	2021.2	2000.6
12.5°	2117.7	2072.9	1986.8	1955.8	1935.2
15°	2079.8	2024.7	1931.7	1897.3	1880.1
17.5°	2035.0	1973.0	1869.7	1842.2	1828.4
20°	1986.8	1914.5	1811.2	1787.1	1773.3
22.5°	1931.7	1849.1	1752.7	1735.4	1725.1
25°	1869.7	1787.1	1694.1	1680.4	1673.5
27.5°	1807.8	1718.2	1632.1	1625.3	1621.8
30°	1735.4	1649.4	1566.7	1570.2	1570.2
32.5°	1663.1	1577.1	1511.6	1518.5	1518.5
35°	1583.9	1501.3	1446.2	1460.0	1463.4
37.5°	1501.3	1429.0	1384.2	1404.9	1415.2
40°	1418.7	1353.2	1318.8	1349.8	1360.1
42.5°	1336.0	1274.0	1260.3	1298.1	1311.9
45°	1243.0	1194.8	1194.8	1243.0	1263.7
47.5°	1153.5	1122.5	1132.9	1194.8	1225.8
50°	1067.4	1043.3	1070.9	1150.1	1184.5
52.5°	974.5	967.6	1012.3	1108.8	1150.1
55°	895.3	891.8	957.3	1070.9	1112.2
57.5°	809.2	819.5	909.0	1033.0	1077.8
60°	726.5	747.2	864.3	995.1	1036.4
62.5°	643.9	685.2	823.0	957.3	1005.5
65°	568.2	616.4	781.6	919.4	967.6
67.5°	492.4	554.4	740.3	884.9	933.1
70°	416.6	499.3	702.4	847.1	895.3
72.5°	340.9	451.1	664.6	809.2	860.8
75°	275.5	402.9	626.7	771.3	823.0
77.5°	213.5	365.0	588.8	740.3	785.1
80°	155.0	323.7	554.4	702.4	750.7
82.5°	99.9	289.2	516.5	664.6	716.2
85°	58.5	251.4	478.6	630.1	678.3
87.5°	24.1	213.5	444.2	592.3	640.5
90°	0.0	182.5	406.3	554.4	602.6
92.5°	0.0	151.5	371.9	519.9	568.2
95°	0.0	117.1	334.0	482.1	530.3
97.5°	0.0	89.5	296.1	444.2	492.4
100°	0.0	68.9	258.3	399.4	451.1
102.5°	0.0	48.2	220.4	358.1	409.8
105°	0.0	27.5	189.4	320.2	365.0
107.5°	0.0	13.8	158.4	282.4	327.1
110°	0.0	3.4	127.4	244.5	285.8



TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-80-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	99.9	210.0	251.4
115°	0.0	0.0	75.8	175.6	213.5
117.5°	0.0	0.0	51.7	144.6	179.1
120°	0.0	0.0	31.0	113.6	144.6
122.5°	0.0	0.0	13.8	86.1	113.6
125°	0.0	0.0	3.4	58.5	86.1
127.5°	0.0	0.0	0.0	34.4	58.5
130°	0.0	0.0	0.0	17.2	34.4
132.5°	0.0	0.0	0.0	3.4	13.8
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°	3.4	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)