

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-L950-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-L950-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7246.7 lumens  
Efficiency: N/A  
Efficacy: 115.2 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

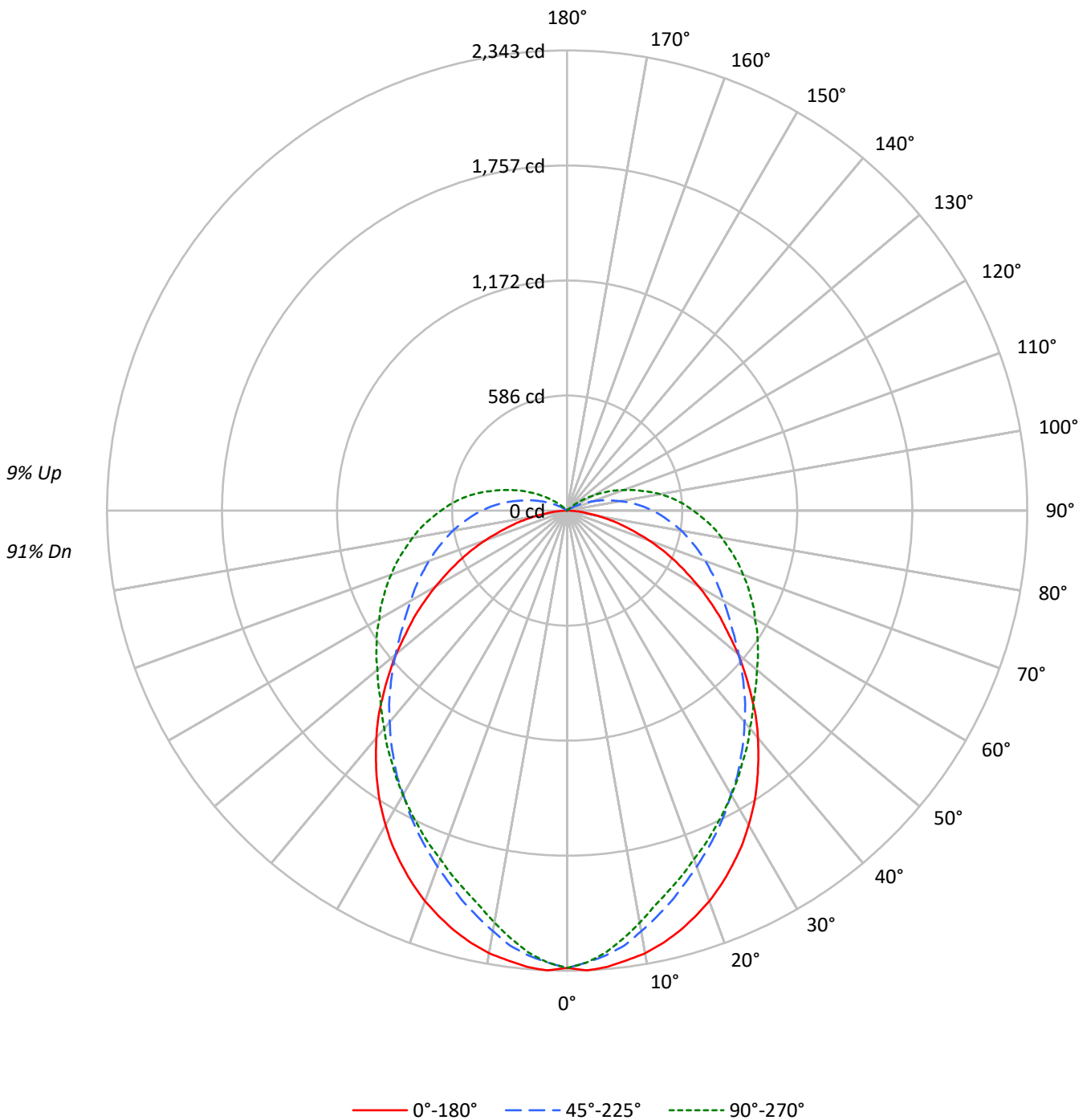
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	150394	150394	150394
5°	150653	117920	108485
10°	148971	94829	81934
15°	146462	77900	64619
20°	143255	64982	52853
25°	139194	55119	44327
30°	134597	46956	37681
35°	129227	40462	32330
40°	123077	34846	28032
45°	116081	30126	24585
50°	108815	26008	21978
55°	101331	22590	19869
60°	93221	19983	17983
65°	84884	17846	16442
70°	75177	15958	15017
75°	63359	14276	13731
80°	49637	12761	12554
85°	31272	11219	11458



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.6	3.0
10°-20°	587.6	8.1
20°-30°	850.2	11.7
30°-40°	988.9	13.6
40°-50°	1006.6	13.9
50°-60°	936.6	12.9
60°-70°	815.6	11.3
70°-80°	663.9	9.2
80°-90°	502.9	6.9
90°-100°	348.8	4.8
100°-110°	205.0	2.8
110°-120°	96.1	1.3
120°-130°	27.4	0.4
130°-140°	1.5	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°	1653.4	22.8
0°-40°	2642.3	36.5
0°-60°	4585.5	63.3
0°-90°	6568.0	90.6
90°-120°	649.9	9.0
90°-150°	678.7	9.4
90°-180°	679.0	9.4
0°-180°	7246.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2329	2329	2329	2329	2329	
5°	2332	2314	2274	2274	2259	221
15°	2215	2156	2057	2021	2002	624
25°	1991	1903	1804	1790	1782	917
35°	1687	1599	1540	1555	1559	1054
45°	1324	1272	1272	1324	1346	1022
55°	954	950	1020	1140	1184	851
65°	605	656	832	979	1030	599
75°	293	429	667	822	876	313
85°	62	268	510	671	722	72
90°	0	194	433	590	642	4
95°	0	125	356	513	565	0
105°	0	29	202	341	389	0
115°	0	0	81	187	227	0
125°	0	0	4	62	92	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2328.7	2328.7	2328.7	2328.7	2328.7
2.5°	2343.3	2332.3	2303.0	2314.0	2303.0
5°	2332.3	2314.0	2273.7	2273.7	2259.0
7.5°	2310.3	2288.3	2233.3	2215.0	2196.7
10°	2288.3	2255.3	2174.7	2152.7	2130.6
12.5°	2255.3	2207.7	2116.0	2083.0	2061.0
15°	2215.0	2156.3	2057.3	2020.6	2002.3
17.5°	2167.3	2101.3	1991.3	1962.0	1947.3
20°	2116.0	2039.0	1929.0	1903.3	1888.6
22.5°	2057.3	1969.3	1866.6	1848.3	1837.3
25°	1991.3	1903.3	1804.3	1789.6	1782.3
27.5°	1925.3	1829.9	1738.3	1730.9	1727.3
30°	1848.3	1756.6	1668.6	1672.2	1672.2
32.5°	1771.3	1679.6	1609.9	1617.2	1617.2
35°	1686.9	1598.9	1540.2	1554.9	1558.6
37.5°	1598.9	1521.9	1474.2	1496.2	1507.2
40°	1510.9	1441.2	1404.5	1437.5	1448.5
42.5°	1422.9	1356.9	1342.2	1382.5	1397.2
45°	1323.9	1272.5	1272.5	1323.9	1345.9
47.5°	1228.5	1195.5	1206.5	1272.5	1305.5
50°	1136.8	1111.2	1140.5	1224.8	1261.5
52.5°	1037.8	1030.5	1078.2	1180.8	1224.8
55°	953.5	949.8	1019.5	1140.5	1184.5
57.5°	861.8	872.8	968.1	1100.2	1147.8
60°	773.8	795.8	920.5	1059.8	1103.8
62.5°	685.8	729.8	876.5	1019.5	1070.8
65°	605.1	656.4	832.5	979.1	1030.5
67.5°	524.4	590.4	788.5	942.5	993.8
70°	443.7	531.7	748.1	902.1	953.5
72.5°	363.1	480.4	707.8	861.8	916.8
75°	293.4	429.1	667.4	821.5	876.5
77.5°	227.4	388.7	627.1	788.5	836.1
80°	165.0	344.7	590.4	748.1	799.5
82.5°	106.3	308.0	550.1	707.8	762.8
85°	62.3	267.7	509.7	671.1	722.4
87.5°	25.7	227.4	473.1	630.8	682.1
90°	0.0	194.4	432.7	590.4	641.8
92.5°	0.0	161.4	396.1	553.7	605.1
95°	0.0	124.7	355.7	513.4	564.8
97.5°	0.0	95.3	315.4	473.1	524.4
100°	0.0	73.3	275.0	425.4	480.4
102.5°	0.0	51.3	234.7	381.4	436.4
105°	0.0	29.3	201.7	341.1	388.7
107.5°	0.0	14.7	168.7	300.7	348.4
110°	0.0	3.7	135.7	260.4	304.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	106.3	223.7	267.7
115°	0.0	0.0	80.7	187.0	227.4
117.5°	0.0	0.0	55.0	154.0	190.7
120°	0.0	0.0	33.0	121.0	154.0
122.5°	0.0	0.0	14.7	91.7	121.0
125°	0.0	0.0	3.7	62.3	91.7
127.5°	0.0	0.0	0.0	36.7	62.3
130°	0.0	0.0	0.0	18.3	36.7
132.5°	0.0	0.0	0.0	3.7	14.7
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°	3.7	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)