

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: P289678

Luminaire Tested: **4SSRK-80-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-80-L940-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7697.8 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

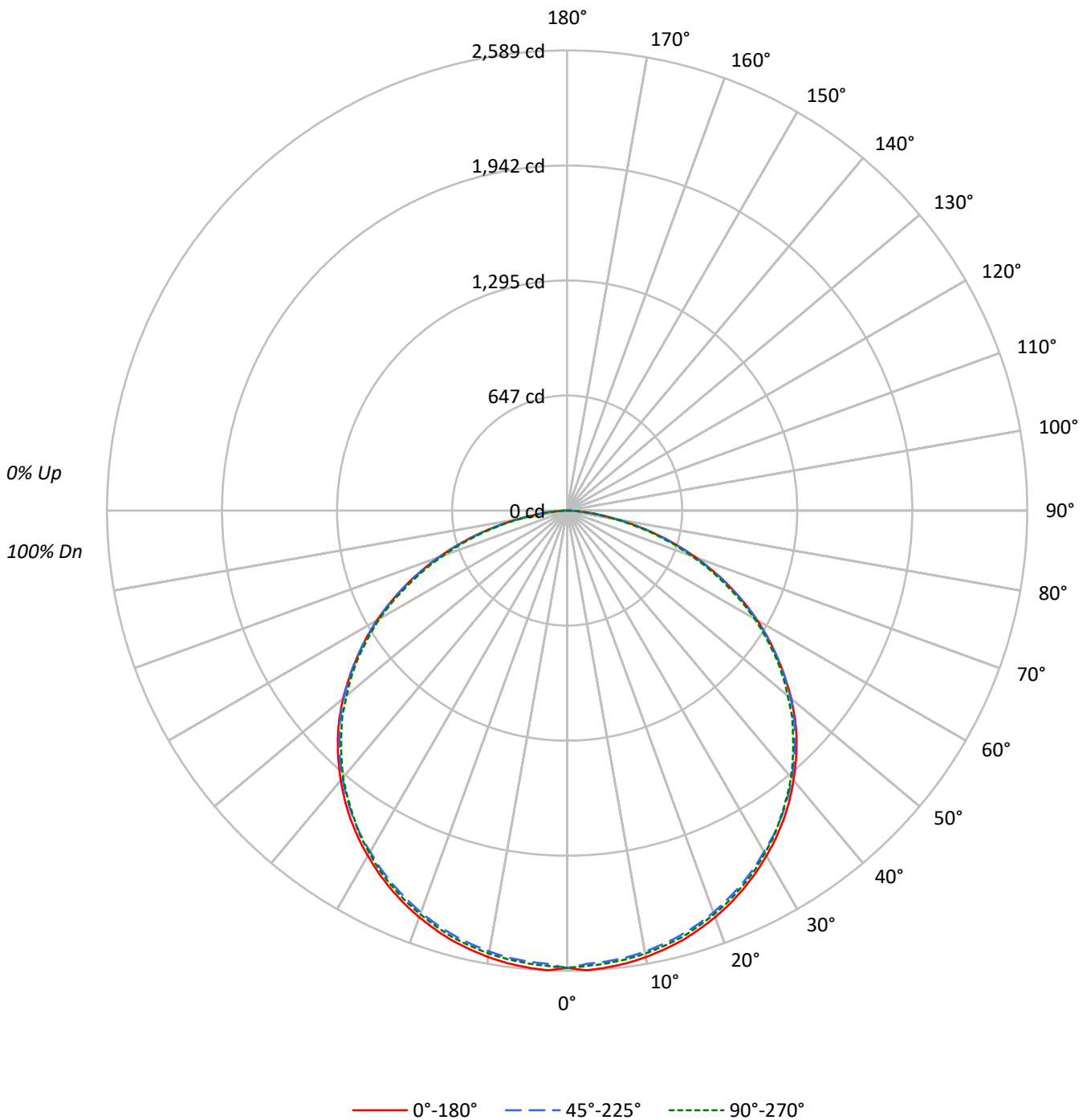
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	166204	166204	166204
5°	166672	132068	122816
10°	166105	109860	97340
15°	165585	93633	80242
20°	164839	81051	67640
25°	164100	70891	57988
30°	163318	62375	50138
35°	162604	55229	43521
40°	161395	48800	37950
45°	160079	42922	32838
50°	157584	37408	28210
55°	153469	32037	23982
60°	148807	26815	19862
65°	141348	21617	15684
70°	130869	16332	11711
75°	113092	11166	7925
80°	86790	6235	4277
85°	51801	2254	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.9	3.2
10°-20°	702.7	9.1
20°-30°	1076.9	14.0
30°-40°	1320.0	17.1
40°-50°	1398.4	18.2
50°-60°	1289.4	16.8
60°-70°	990.9	12.9
70°-80°	549.2	7.1
80°-90°	126.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	2023.5	26.3
0°-40°	3343.5	43.4
0°-60°	6031.4	78.4
0°-90°	7697.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7697.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2574	2574	2574	2574	2574	
5°	2580	2569	2546	2571	2557	245
15°	2504	2492	2473	2495	2486	707
25°	2348	2339	2321	2344	2332	1083
35°	2123	2112	2102	2110	2098	1328
45°	1826	1820	1813	1810	1798	1407
55°	1444	1455	1446	1440	1430	1292
65°	1008	1010	1008	995	983	996
75°	524	524	522	514	506	554
85°	103	105	102	97	89	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2573.5	2573.5	2573.5	2573.5	2573.5
2.5°	2588.8	2576.1	2552.4	2576.1	2564.2
5°	2580.3	2569.3	2546.5	2571.0	2557.4
7.5°	2568.4	2559.1	2536.3	2560.0	2546.5
10°	2551.5	2541.4	2519.4	2544.8	2531.2
12.5°	2528.7	2519.4	2498.2	2521.9	2510.1
15°	2504.2	2492.3	2472.8	2494.8	2486.4
17.5°	2470.3	2461.0	2441.5	2462.7	2453.4
20°	2434.8	2425.5	2406.0	2427.2	2417.0
22.5°	2394.2	2384.9	2364.6	2387.4	2377.3
25°	2347.6	2339.2	2320.6	2344.3	2331.6
27.5°	2298.6	2291.8	2271.5	2291.0	2283.3
30°	2242.7	2238.5	2216.5	2231.7	2225.0
32.5°	2186.1	2178.4	2163.2	2175.1	2168.3
35°	2122.6	2112.5	2102.3	2109.9	2098.1
37.5°	2054.9	2048.2	2037.2	2043.9	2030.4
40°	1981.3	1975.4	1966.9	1968.6	1961.0
42.5°	1905.2	1898.4	1891.6	1888.3	1879.8
45°	1825.7	1819.7	1813.0	1810.4	1797.7
47.5°	1739.4	1735.1	1730.9	1725.0	1715.7
50°	1646.3	1648.0	1640.4	1635.3	1619.2
52.5°	1546.5	1556.6	1545.6	1538.0	1528.7
55°	1444.1	1455.1	1445.8	1439.9	1429.7
57.5°	1342.6	1347.7	1341.8	1337.5	1324.0
60°	1235.2	1239.4	1235.2	1225.8	1219.1
62.5°	1124.3	1129.4	1120.9	1114.2	1104.9
65°	1007.6	1010.1	1008.4	994.9	983.0
67.5°	890.0	894.2	889.1	879.8	868.0
70°	772.4	769.9	765.6	758.9	743.6
72.5°	648.0	648.0	647.2	634.5	626.9
75°	523.7	524.5	522.0	513.5	505.9
77.5°	399.3	408.6	401.8	393.4	384.9
80°	288.5	294.4	288.5	277.5	272.4
82.5°	184.4	192.9	187.8	176.8	175.1
85°	103.2	104.9	102.4	97.3	88.8
87.5°	38.9	40.6	41.5	33.8	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)