

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: P289496

Luminaire Tested: **4RSRK-RM-100-HE-L850**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4RSRK-RM-100-HE-L850
Description: 4ft RSRK, 1000 LUMEN PER FOOT 80CRI 5000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

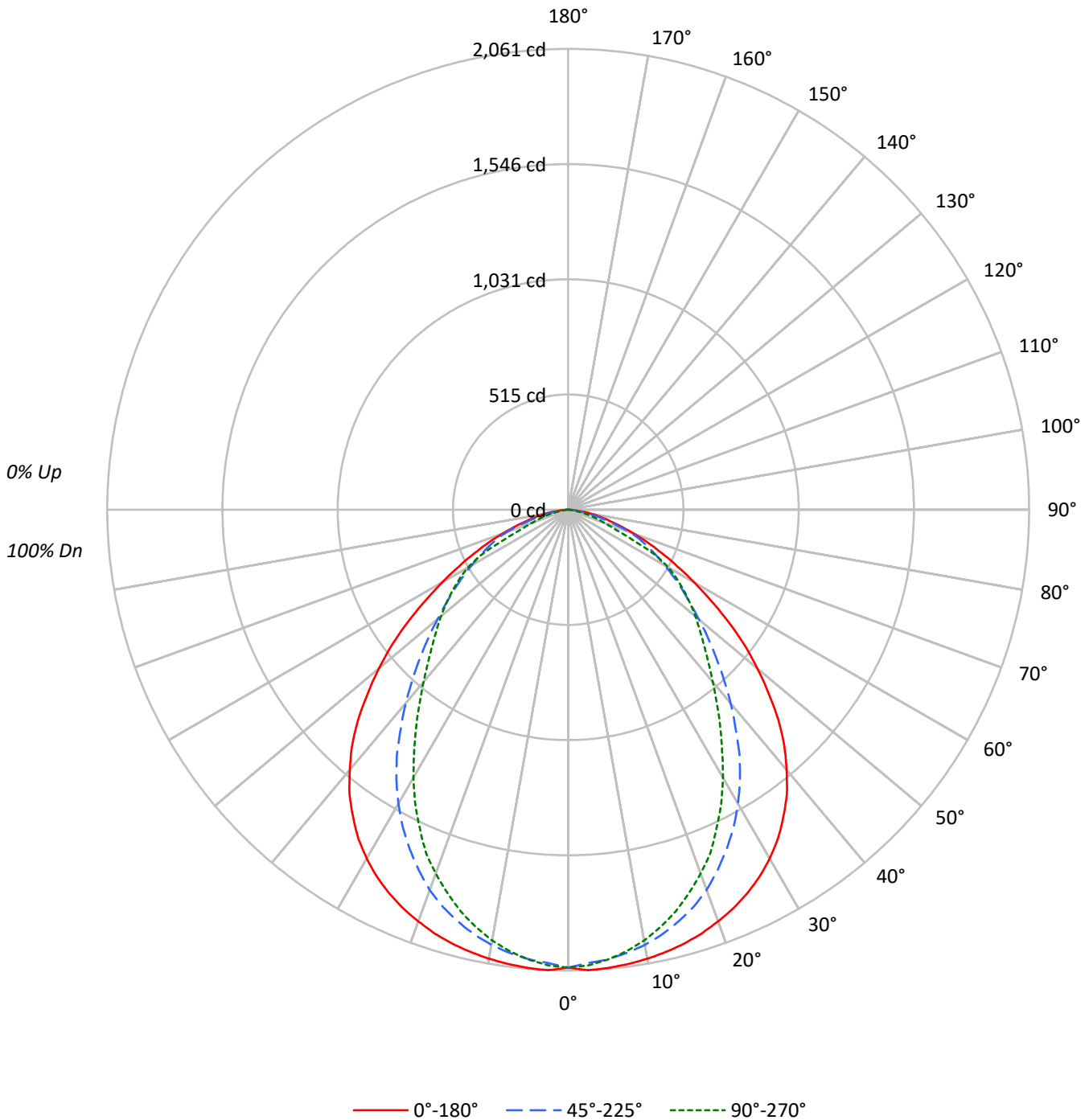
Lumens per Lamp: N/A
Luminaire Lumens: 4347.4 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75					75			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37	35					35			
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5511	5511	5511
5°	5558	5453	5457
10°	5572	5399	5345
15°	5595	5311	5179
20°	5609	5183	4960
25°	5620	4975	4664
30°	5597	4719	4298
35°	5509	4384	3891
40°	5337	3967	3530
45°	5058	3558	3266
50°	4622	3189	3112
55°	4102	2913	2961
60°	3499	2684	2794
65°	2955	2514	1994
70°	2443	2288	1352
75°	1978	1681	1059
80°	1643	1201	652
85°	1133	503	442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	4.4
10°-20°	541.5	12.5
20°-30°	784.2	18.0
30°-40°	860.8	19.8
40°-50°	777.7	17.9
50°-60°	606.4	13.9
60°-70°	383.9	8.8
70°-80°	168.1	3.9
80°-90°	32.2	0.7
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°	1518.4	34.9
0°-40°	2379.1	54.7
0°-60°	3763.2	86.6
0°-90°	4347.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4347.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2057	2044	2019	2030	2020	196
15°	2008	1971	1906	1883	1859	567
25°	1893	1810	1676	1612	1571	872
35°	1677	1527	1334	1228	1184	1047
45°	1329	1118	935	879	858	1019
55°	874	701	621	630	631	781
65°	464	386	395	378	313	465
75°	190	196	162	116	102	208
85°	37	35	16	15	14	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2047.8	2047.8	2047.8	2047.8	2047.8
2.5°	2061.4	2049.9	2029.5	2045.1	2039.7
5°	2057.4	2043.8	2018.6	2029.5	2020.0
7.5°	2049.9	2033.6	2000.3	2003.7	1992.1
10°	2039.0	2017.3	1975.8	1971.7	1956.1
12.5°	2025.4	1996.2	1945.2	1931.0	1910.6
15°	2008.4	1971.1	1906.5	1883.4	1859.0
17.5°	1986.7	1939.1	1862.4	1825.0	1797.1
20°	1958.8	1901.8	1810.0	1761.1	1731.9
22.5°	1929.6	1859.0	1744.8	1693.9	1661.2
25°	1892.9	1810.0	1675.5	1612.3	1570.9
27.5°	1851.5	1753.6	1600.8	1522.6	1481.2
30°	1801.2	1687.7	1518.6	1424.8	1383.3
32.5°	1745.5	1613.0	1428.9	1329.0	1280.8
35°	1676.9	1526.7	1334.4	1227.8	1184.3
37.5°	1606.2	1433.6	1228.4	1129.2	1091.9
40°	1519.2	1335.1	1129.2	1038.2	1004.9
42.5°	1430.2	1225.7	1030.0	954.6	927.4
45°	1329.0	1118.4	934.9	879.2	858.1
47.5°	1215.5	1011.7	847.3	812.6	797.7
50°	1104.1	905.0	761.7	748.1	743.3
52.5°	993.3	800.4	687.6	689.0	686.2
55°	874.4	701.2	621.0	629.8	631.2
57.5°	756.2	606.7	558.5	574.8	576.2
60°	650.2	525.9	498.7	518.4	519.1
62.5°	552.4	450.5	444.4	463.4	441.0
65°	464.1	385.9	394.8	377.8	313.2
67.5°	385.2	332.2	346.5	264.3	222.2
70°	310.5	279.9	290.8	197.0	171.9
72.5°	245.3	236.4	220.1	153.6	133.9
75°	190.2	195.7	161.7	116.2	101.9
77.5°	145.4	159.0	117.5	83.6	70.0
80°	106.0	118.9	77.5	50.3	42.1
82.5°	70.0	74.7	40.8	25.8	22.4
85°	36.7	34.7	16.3	14.9	14.3
87.5°	15.6	8.8	8.2	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)