

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: P289494

Luminaire Tested: **4RSRK-RM-100-HE-L835**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289494
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-L835
Description: 4ft RSRK, 1000 LUMEN PER FOOT 80CRI 3500K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

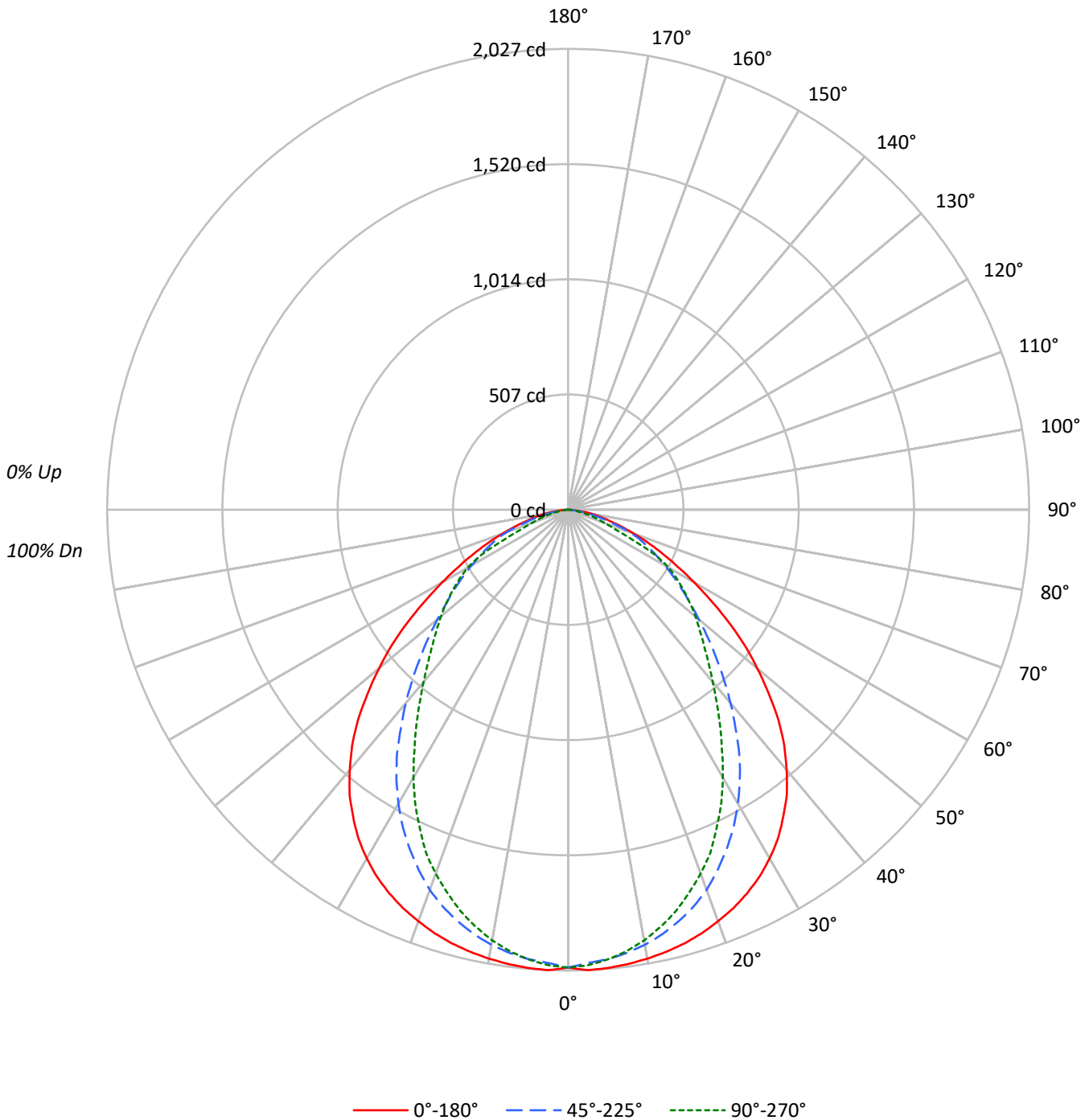
Lumens per Lamp: N/A
Luminaire Lumens: 4274.9 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P289494

CATALOG NUMBER: 4RSRK-RM-100-HE-L835

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37	35
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5419	5419	5419
5°	5465	5362	5366
10°	5479	5309	5256
15°	5502	5223	5093
20°	5516	5097	4877
25°	5527	4892	4586
30°	5504	4640	4227
35°	5417	4311	3825
40°	5248	3901	3471
45°	4973	3499	3211
50°	4545	3136	3060
55°	4034	2865	2912
60°	3441	2639	2747
65°	2905	2472	1961
70°	2402	2250	1330
75°	1945	1653	1042
80°	1615	1181	642
85°	1115	494	432



TEST NUMBER: P289494

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	4.4
10°-20°	532.4	12.5
20°-30°	771.2	18.0
30°-40°	846.4	19.8
40°-50°	764.7	17.9
50°-60°	596.3	13.9
60°-70°	377.5	8.8
70°-80°	165.3	3.9
80°-90°	31.7	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°	1493.1	34.9
0°-40°	2339.5	54.7
0°-60°	3700.5	86.6
0°-90°	4274.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4274.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2023	2010	1985	1996	1986	192
15°	1975	1938	1875	1852	1828	558
25°	1861	1780	1648	1585	1545	857
35°	1649	1501	1312	1207	1164	1030
45°	1307	1100	919	864	844	1002
55°	860	690	611	619	621	768
65°	456	380	388	372	308	457
75°	187	192	159	114	100	204
85°	36	34	16	15	14	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2027.1	2015.7	1995.7	2011.0	2005.7
5°	2023.0	2009.7	1985.0	1995.7	1986.3
7.5°	2015.7	1999.7	1966.9	1970.3	1958.9
10°	2005.0	1983.6	1942.9	1938.9	1923.5
12.5°	1991.6	1962.9	1912.8	1898.8	1878.7
15°	1974.9	1938.2	1874.7	1852.0	1828.0
17.5°	1953.6	1906.8	1831.3	1794.6	1767.2
20°	1926.2	1870.1	1779.9	1731.8	1703.0
22.5°	1897.4	1828.0	1715.7	1665.6	1633.5
25°	1861.4	1779.9	1647.6	1585.4	1544.7
27.5°	1820.6	1724.4	1574.1	1497.2	1456.5
30°	1771.2	1659.6	1493.2	1401.0	1360.3
32.5°	1716.4	1586.1	1405.0	1306.8	1259.4
35°	1648.9	1501.3	1312.2	1207.3	1164.5
37.5°	1579.4	1409.7	1207.9	1110.4	1073.7
40°	1493.9	1312.8	1110.4	1020.9	988.1
42.5°	1406.4	1205.3	1012.9	938.7	912.0
45°	1306.8	1099.7	919.3	864.5	843.8
47.5°	1195.3	994.8	833.1	799.1	784.4
50°	1085.7	889.9	749.0	735.6	730.9
52.5°	976.8	787.0	676.1	677.5	674.8
55°	859.9	689.5	610.7	619.3	620.7
57.5°	743.6	596.6	549.2	565.2	566.6
60°	639.4	517.1	490.4	509.8	510.4
62.5°	543.2	443.0	436.9	455.7	433.6
65°	456.3	379.5	388.2	371.5	308.0
67.5°	378.8	326.7	340.7	259.9	218.5
70°	305.3	275.3	286.0	193.8	169.0
72.5°	241.2	232.5	216.5	151.0	131.6
75°	187.1	192.4	159.0	114.2	100.2
77.5°	143.0	156.3	115.6	82.2	68.8
80°	104.2	116.9	76.2	49.4	41.4
82.5°	68.8	73.5	40.1	25.4	22.0
85°	36.1	34.1	16.0	14.7	14.0
87.5°	15.4	8.7	8.0	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)