

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: P289586

Luminaire Tested: **8RSRK-RM-200-HE-L940**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289586
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: 8RSRK-RM-200-HE-L940
Description: 8ft RSRK, 2000 LUMEN PER FOOT 90CRI 4000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

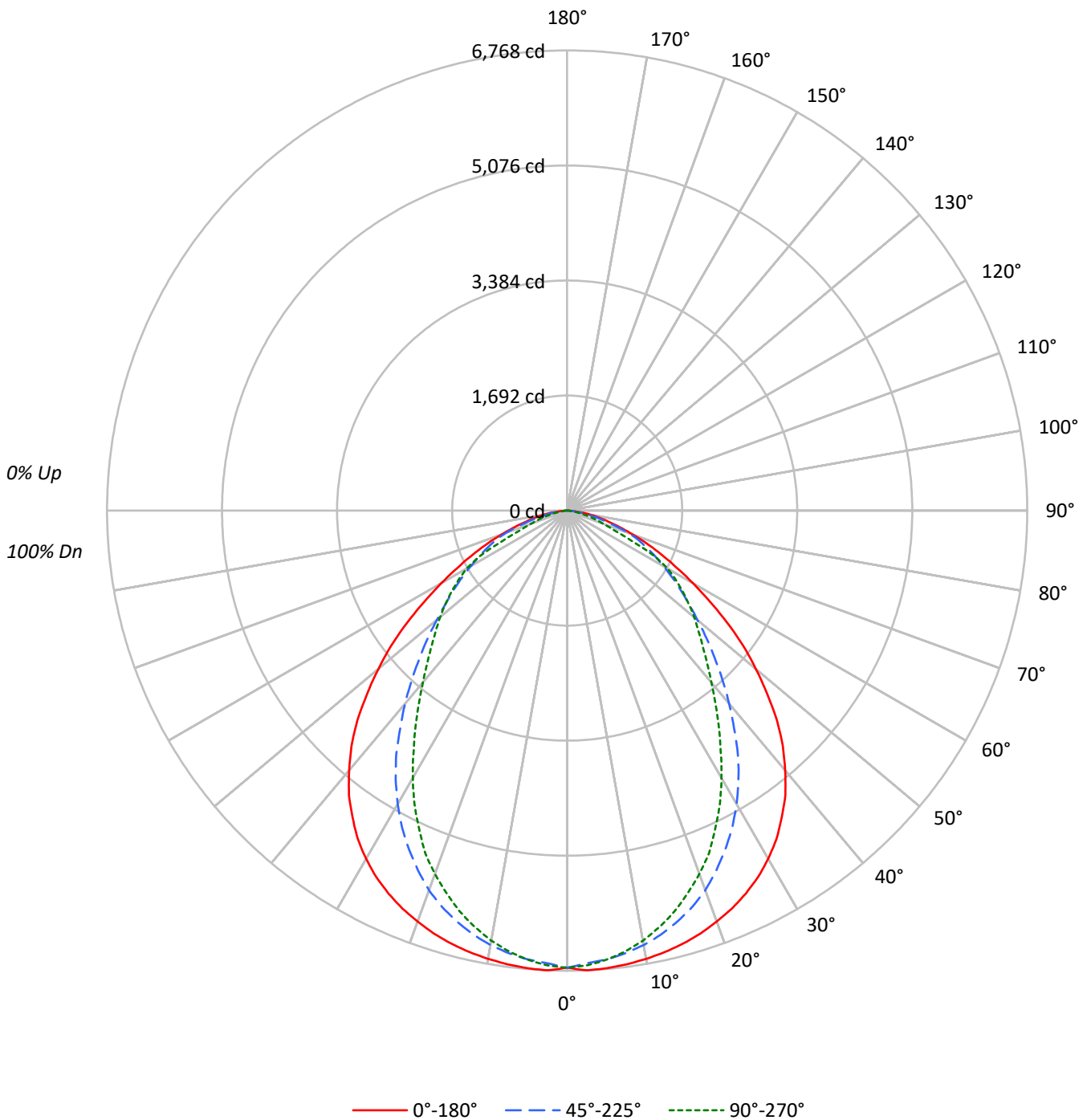
Lumens per Lamp: N/A
Luminaire Lumens: 14273.2 lumens
Efficiency: N/A
Efficacy: 233.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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°	9046	9046	9046
5°	9123	8951	8957
10°	9146	8863	8774
15°	9185	8719	8501
20°	9208	8509	8142
25°	9226	8167	7657
30°	9188	7746	7056
35°	9043	7196	6386
40°	8761	6512	5795
45°	8303	5841	5361
50°	7588	5234	5108
55°	6735	4783	4861
60°	5745	4406	4586
65°	4851	4126	3274
70°	4010	3756	2220
75°	3247	2760	1739
80°	2696	1970	1072
85°	1860	826	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.6	4.4
10°-20°	1777.7	12.5
20°-30°	2574.7	18.0
30°-40°	2826.0	19.8
40°-50°	2553.3	17.9
50°-60°	1990.9	13.9
60°-70°	1260.3	8.8
70°-80°	551.8	3.9
80°-90°	105.8	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°	4985.1	34.9
0°-40°	7811.1	54.7
0°-60°	12355.3	86.6
0°-90°	14273.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14273.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6723	6723	6723	6723	6723	
5°	6755	6710	6628	6663	6632	643
15°	6594	6471	6259	6184	6103	1862
25°	6215	5943	5501	5294	5157	2863
35°	5505	5012	4381	4031	3888	3438
45°	4363	3672	3070	2887	2817	3346
55°	2871	2302	2039	2068	2072	2565
65°	1524	1267	1296	1240	1028	1526
75°	625	642	531	382	335	683
85°	120	114	54	49	47	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6723.4	6723.4	6723.4	6723.4	6723.4
2.5°	6768.0	6730.1	6663.2	6714.5	6696.6
5°	6754.6	6710.0	6627.5	6663.2	6631.9
7.5°	6730.1	6676.5	6567.2	6578.4	6540.5
10°	6694.4	6623.0	6486.9	6473.5	6422.2
12.5°	6649.8	6553.9	6386.5	6339.7	6272.8
15°	6594.0	6471.3	6259.4	6183.6	6103.2
17.5°	6522.6	6366.5	6114.4	5991.7	5900.3
20°	6431.2	6243.8	5942.6	5782.0	5686.1
22.5°	6335.2	6103.2	5728.5	5561.2	5454.1
25°	6214.8	5942.6	5501.0	5293.5	5157.4
27.5°	6078.7	5757.5	5255.6	4999.0	4863.0
30°	5913.6	5541.1	4985.7	4677.8	4541.7
32.5°	5730.7	5295.7	4691.2	4363.3	4204.9
35°	5505.4	5012.4	4381.1	4030.9	3888.1
37.5°	5273.4	4706.8	4033.1	3707.5	3584.8
40°	4987.9	4383.4	3707.5	3408.5	3299.2
42.5°	4695.7	4024.2	3381.8	3134.2	3044.9
45°	4363.3	3671.8	3069.5	2886.6	2817.4
47.5°	3990.8	3321.5	2781.7	2667.9	2618.9
50°	3624.9	2971.3	2500.6	2456.0	2440.4
52.5°	3261.3	2627.8	2257.5	2261.9	2253.0
55°	2870.9	2302.1	2038.9	2067.9	2072.3
57.5°	2482.8	1992.0	1833.7	1887.2	1891.6
60°	2134.8	1726.6	1637.3	1702.0	1704.3
62.5°	1813.6	1479.0	1458.9	1521.4	1447.7
65°	1523.6	1267.0	1296.0	1240.3	1028.4
67.5°	1264.8	1090.8	1137.7	867.7	729.4
70°	1019.4	919.1	954.7	646.9	564.4
72.5°	805.3	776.3	722.8	504.1	439.5
75°	624.6	642.4	530.9	381.5	334.6
77.5°	477.4	522.0	385.9	274.4	229.8
80°	348.0	390.4	254.3	165.1	138.3
82.5°	229.8	245.4	133.8	84.8	73.6
85°	120.5	113.8	53.5	49.1	46.8
87.5°	51.3	29.0	26.8	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)