

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: P289479

Luminaire Tested: **4RSRK-RM-50-HE-L840**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289479
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-50-HE-L840
Description: 4ft RSRK, 500 LUMEN PER FOOT 80CRI 4000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

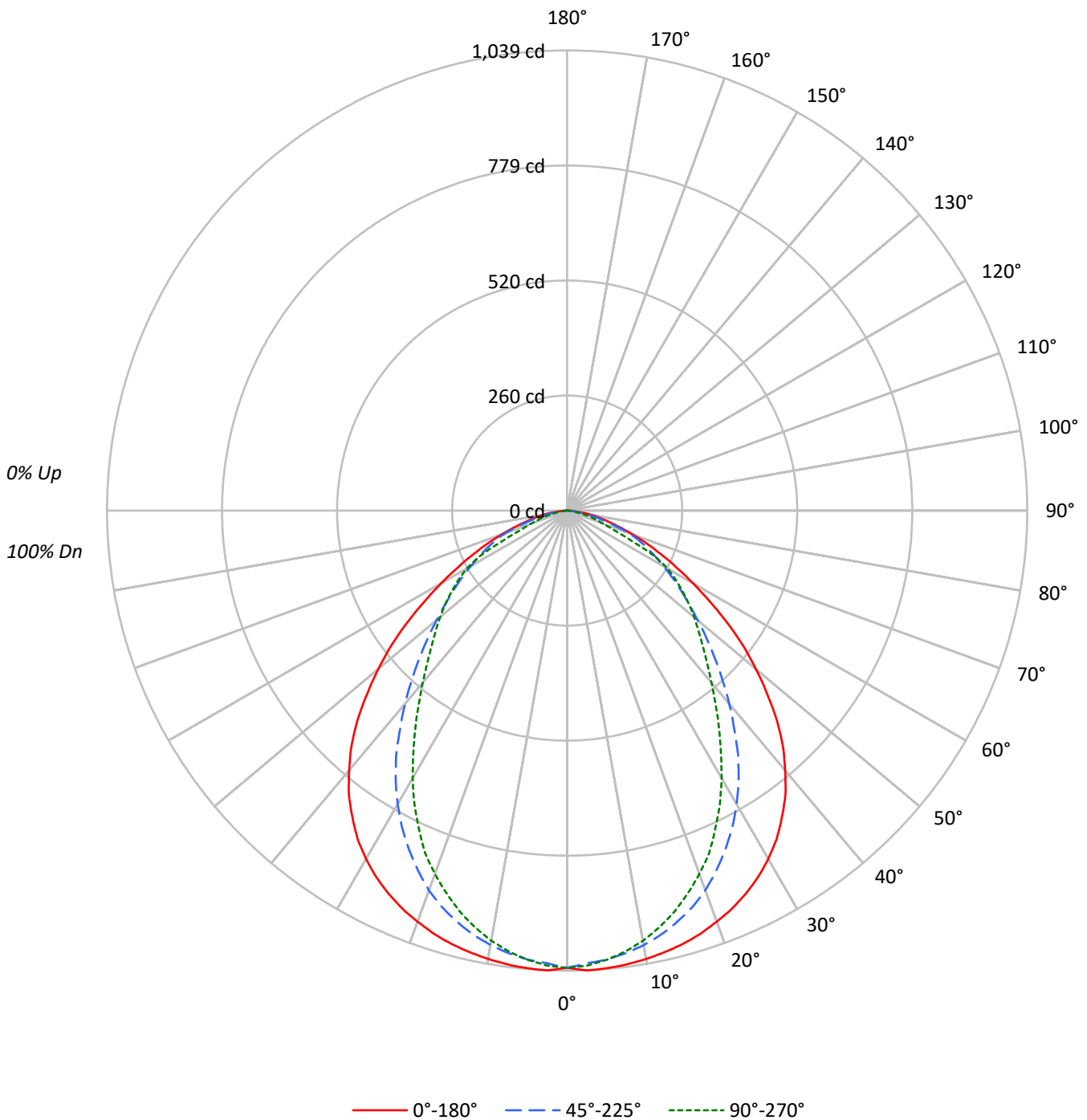
Lumens per Lamp: N/A
Luminaire Lumens: 2191.8 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.3
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	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°	2778	2778	2778
5°	2802	2749	2751
10°	2809	2722	2695
15°	2821	2678	2611
20°	2828	2613	2500
25°	2833	2508	2352
30°	2822	2379	2167
35°	2777	2210	1962
40°	2690	2000	1780
45°	2550	1794	1646
50°	2330	1608	1569
55°	2069	1469	1493
60°	1764	1353	1408
65°	1490	1267	1005
70°	1231	1153	682
75°	997	847	534
80°	828	604	329
85°	571	253	222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	4.4
10°-20°	273.0	12.5
20°-30°	395.4	18.0
30°-40°	434.0	19.8
40°-50°	392.1	17.9
50°-60°	305.7	13.9
60°-70°	193.5	8.8
70°-80°	84.7	3.9
80°-90°	16.2	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°	765.5	34.9
0°-40°	1199.5	54.7
0°-60°	1897.2	86.6
0°-90°	2191.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2191.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1037	1030	1018	1023	1018	99
15°	1013	994	961	950	937	286
25°	954	912	845	813	792	440
35°	845	770	673	619	597	528
45°	670	564	471	443	433	514
55°	441	354	313	318	318	394
65°	234	195	199	190	158	234
75°	96	99	82	59	51	105
85°	18	18	8	8	7	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.4	1032.4	1032.4	1032.4	1032.4
2.5°	1039.3	1033.5	1023.2	1031.1	1028.3
5°	1037.2	1030.4	1017.7	1023.2	1018.4
7.5°	1033.5	1025.2	1008.4	1010.2	1004.3
10°	1028.0	1017.0	996.1	994.1	986.2
12.5°	1021.1	1006.4	980.7	973.5	963.2
15°	1012.6	993.7	961.2	949.5	937.2
17.5°	1001.6	977.6	938.9	920.1	906.0
20°	987.6	958.8	912.5	887.9	873.1
22.5°	972.8	937.2	879.7	854.0	837.5
25°	954.3	912.5	844.7	812.9	792.0
27.5°	933.4	884.1	807.0	767.6	746.7
30°	908.1	850.9	765.6	718.3	697.4
32.5°	880.0	813.2	720.4	670.0	645.7
35°	845.4	769.7	672.8	619.0	597.1
37.5°	809.8	722.8	619.3	569.3	550.5
40°	765.9	673.1	569.3	523.4	506.6
42.5°	721.1	617.9	519.3	481.3	467.6
45°	670.0	563.8	471.3	443.3	432.6
47.5°	612.8	510.0	427.2	409.7	402.1
50°	556.6	456.3	384.0	377.1	374.7
52.5°	500.8	403.5	346.7	347.3	346.0
55°	440.9	353.5	313.1	317.5	318.2
57.5°	381.3	305.9	281.6	289.8	290.5
60°	327.8	265.1	251.4	261.4	261.7
62.5°	278.5	227.1	224.0	233.6	222.3
65°	234.0	194.6	199.0	190.5	157.9
67.5°	194.2	167.5	174.7	133.2	112.0
70°	156.5	141.1	146.6	99.3	86.7
72.5°	123.7	119.2	111.0	77.4	67.5
75°	95.9	98.7	81.5	58.6	51.4
77.5°	73.3	80.2	59.3	42.1	35.3
80°	53.4	59.9	39.0	25.3	21.2
82.5°	35.3	37.7	20.6	13.0	11.3
85°	18.5	17.5	8.2	7.5	7.2
87.5°	7.9	4.5	4.1	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)