

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: P289511

Luminaire Tested: **4RSRK-RM-200-HE-L840**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289511
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-200-HE-L840
Description: 4ft RSRK, 2000 LUMEN PER FOOT 80CRI 4000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

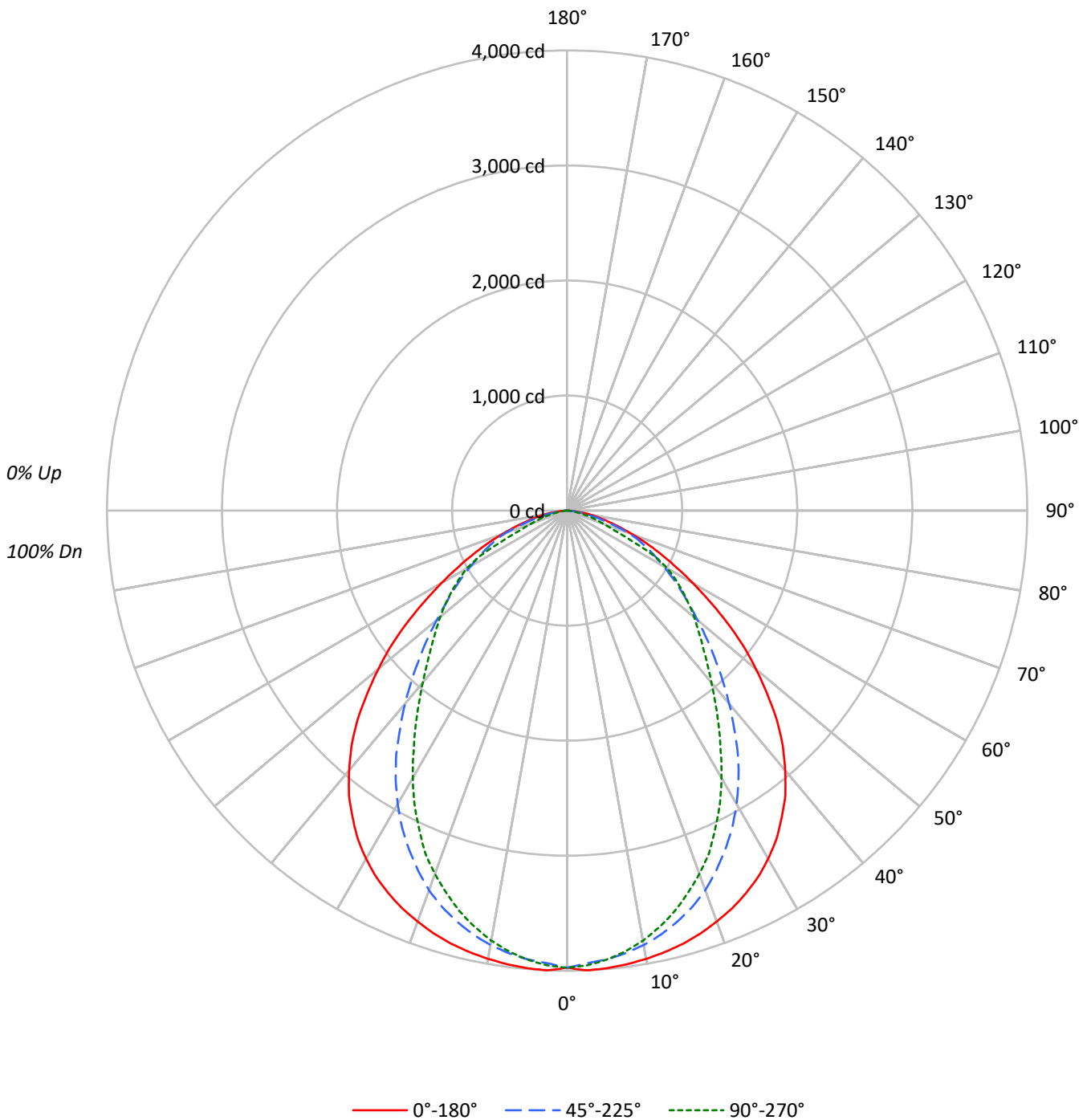
Lumens per Lamp: N/A
Luminaire Lumens: 8435.7 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	10693	10693	10693
5°	10784	10581	10588
10°	10811	10476	10372
15°	10857	10306	10049
20°	10885	10058	9624
25°	10906	9653	9050
30°	10860	9156	8341
35°	10689	8506	7549
40°	10355	7697	6850
45°	9814	6904	6337
50°	8969	6187	6038
55°	7961	5653	5746
60°	6790	5208	5421
65°	5734	4877	3870
70°	4740	4440	2625
75°	3838	3263	2057
80°	3188	2329	1266
85°	2198	976	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.9	4.4
10°-20°	1050.7	12.5
20°-30°	1521.7	18.0
30°-40°	1670.2	19.8
40°-50°	1509.0	17.9
50°-60°	1176.6	13.9
60°-70°	744.9	8.8
70°-80°	326.1	3.9
80°-90°	62.5	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°	2946.3	34.9
0°-40°	4616.5	54.7
0°-60°	7302.2	86.6
0°-90°	8435.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8435.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3974	3974	3974	3974	3974	
5°	3992	3966	3917	3938	3920	380
15°	3897	3825	3699	3655	3607	1101
25°	3673	3512	3251	3128	3048	1692
35°	3254	2962	2589	2382	2298	2032
45°	2579	2170	1814	1706	1665	1977
55°	1697	1361	1205	1222	1225	1516
65°	900	749	766	733	608	902
75°	369	380	314	225	198	403
85°	71	67	32	29	28	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3973.6	3973.6	3973.6	3973.6	3973.6
2.5°	4000.0	3977.6	3938.0	3968.4	3957.8
5°	3992.1	3965.7	3916.9	3938.0	3919.6
7.5°	3977.6	3945.9	3881.3	3887.9	3865.5
10°	3956.5	3914.3	3833.9	3826.0	3795.7
12.5°	3930.1	3873.4	3774.6	3746.9	3707.3
15°	3897.2	3824.7	3699.4	3654.6	3607.1
17.5°	3855.0	3762.7	3613.7	3541.2	3487.1
20°	3800.9	3690.2	3512.2	3417.3	3360.6
22.5°	3744.2	3607.1	3385.6	3286.8	3223.5
25°	3673.0	3512.2	3251.2	3128.5	3048.1
27.5°	3592.6	3402.8	3106.1	2954.5	2874.1
30°	3495.1	3274.9	2946.6	2764.7	2684.2
32.5°	3386.9	3129.9	2772.6	2578.8	2485.2
35°	3253.8	2962.4	2589.3	2382.3	2298.0
37.5°	3116.7	2781.8	2383.7	2191.2	2118.7
40°	2947.9	2590.6	2191.2	2014.5	1949.9
42.5°	2775.2	2378.4	1998.7	1852.3	1799.6
45°	2578.8	2170.1	1814.1	1706.0	1665.1
47.5°	2358.6	1963.1	1644.0	1576.8	1547.8
50°	2142.4	1756.1	1477.9	1451.5	1442.3
52.5°	1927.5	1553.1	1334.2	1336.8	1331.6
55°	1696.8	1360.6	1205.0	1222.1	1224.8
57.5°	1467.4	1177.3	1083.7	1115.4	1118.0
60°	1261.7	1020.4	967.7	1005.9	1007.3
62.5°	1071.9	874.1	862.2	899.1	855.6
65°	900.5	748.8	766.0	733.0	607.8
67.5°	747.5	644.7	672.4	512.9	431.1
70°	602.5	543.2	564.3	382.3	333.6
72.5°	475.9	458.8	427.2	298.0	259.7
75°	369.1	379.7	313.8	225.4	197.8
77.5°	282.1	308.5	228.1	162.2	135.8
80°	205.7	230.7	150.3	97.6	81.7
82.5°	135.8	145.0	79.1	50.1	43.5
85°	71.2	67.2	31.6	29.0	27.7
87.5°	30.3	17.1	15.8	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)