

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: P289508

Luminaire Tested: **4RSRK-RM-200-HE-L950**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289508
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-L950
Description: 4ft RSRK, 2000 LUMEN PER FOOT 90CRI 5000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

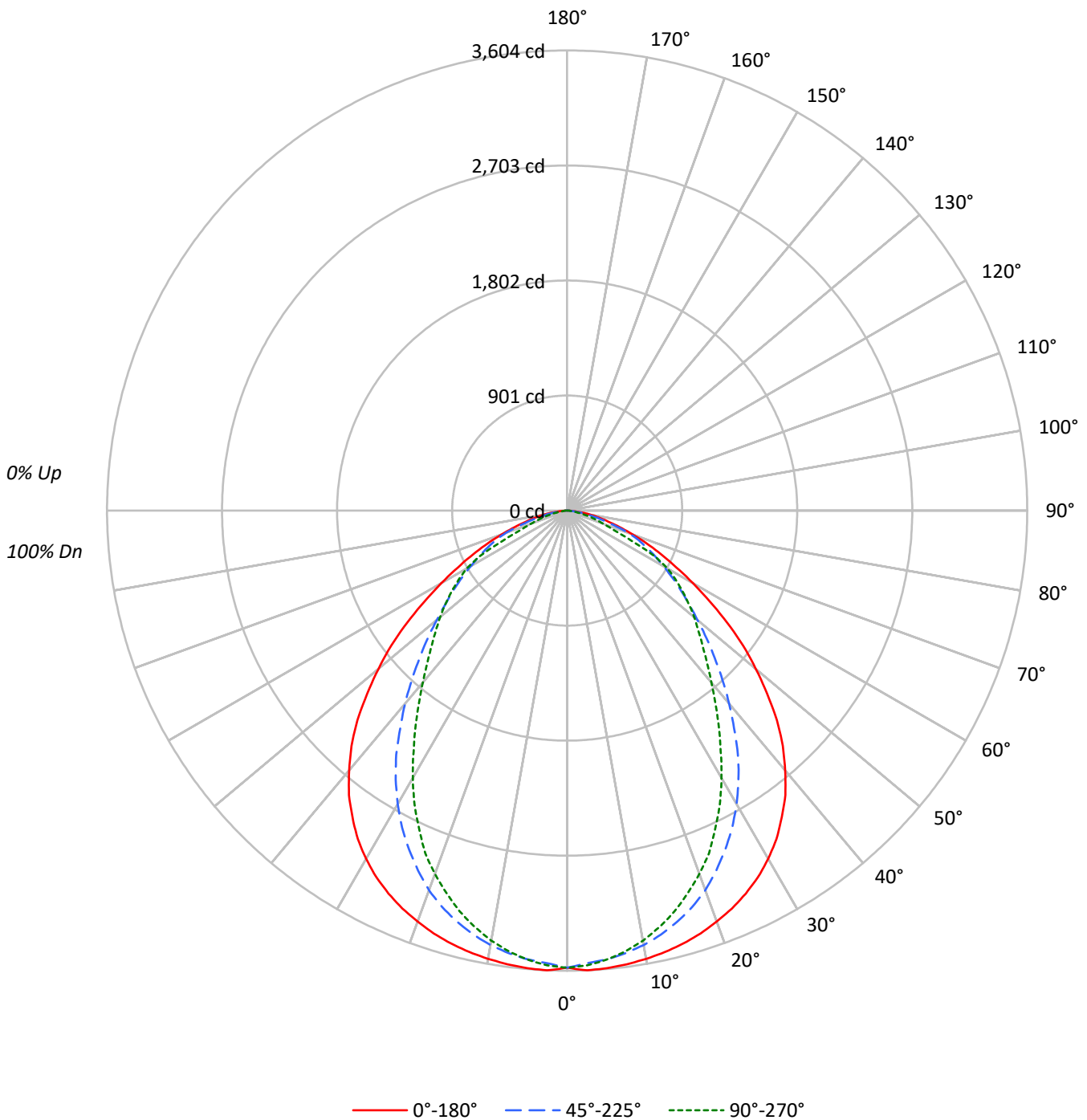
Lumens per Lamp: N/A
Luminaire Lumens: 7600.6 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	9634	9634	9634
5°	9716	9533	9539
10°	9741	9439	9345
15°	9782	9286	9054
20°	9807	9062	8671
25°	9826	8698	8155
30°	9785	8250	7515
35°	9631	7664	6802
40°	9330	6935	6172
45°	8842	6220	5710
50°	8081	5575	5440
55°	7172	5094	5177
60°	6118	4693	4884
65°	5166	4395	3487
70°	4271	4000	2364
75°	3458	2939	1853
80°	2872	2098	1141
85°	1979	880	769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	4.4
10°-20°	946.7	12.5
20°-30°	1371.1	18.0
30°-40°	1504.9	19.8
40°-50°	1359.6	17.9
50°-60°	1060.2	13.9
60°-70°	671.1	8.8
70°-80°	293.9	3.9
80°-90°	56.4	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°	2654.6	34.9
0°-40°	4159.5	54.7
0°-60°	6579.3	86.6
0°-90°	7600.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7600.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3580	3580	3580	3580	3580	
5°	3597	3573	3529	3548	3532	342
15°	3511	3446	3333	3293	3250	992
25°	3309	3164	2929	2819	2746	1525
35°	2932	2669	2333	2146	2070	1831
45°	2324	1955	1634	1537	1500	1782
55°	1529	1226	1086	1101	1104	1366
65°	811	675	690	660	548	813
75°	333	342	283	203	178	364
85°	64	61	28	26	25	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3580.2	3580.2	3580.2	3580.2	3580.2
2.5°	3604.0	3583.8	3548.2	3575.5	3566.0
5°	3596.9	3573.1	3529.2	3548.2	3531.5
7.5°	3583.8	3555.3	3497.1	3503.0	3482.8
10°	3564.8	3526.8	3454.3	3447.2	3419.9
12.5°	3541.0	3490.0	3400.9	3375.9	3340.3
15°	3511.3	3446.0	3333.2	3292.8	3250.0
17.5°	3473.3	3390.2	3256.0	3190.6	3141.9
20°	3424.6	3324.9	3164.5	3079.0	3027.9
22.5°	3373.6	3250.0	3050.5	2961.4	2904.3
25°	3309.4	3164.5	2929.3	2818.8	2746.4
27.5°	3236.9	3065.9	2798.6	2662.0	2589.6
30°	3149.0	2950.7	2654.9	2491.0	2418.5
32.5°	3051.6	2820.0	2498.1	2323.5	2239.1
35°	2931.7	2669.1	2333.0	2146.5	2070.5
37.5°	2808.1	2506.4	2147.7	1974.2	1908.9
40°	2656.1	2334.2	1974.2	1815.1	1756.9
42.5°	2500.5	2142.9	1800.8	1669.0	1621.4
45°	2323.5	1955.2	1634.5	1537.1	1500.3
47.5°	2125.1	1768.7	1481.3	1420.7	1394.6
50°	1930.3	1582.2	1331.6	1307.8	1299.5
52.5°	1736.7	1399.3	1202.1	1204.5	1199.7
55°	1528.8	1225.9	1085.7	1101.2	1103.5
57.5°	1322.1	1060.8	976.4	1004.9	1007.3
60°	1136.8	919.4	871.9	906.3	907.5
62.5°	965.7	787.6	776.9	810.1	770.9
65°	811.3	674.7	690.2	660.5	547.6
67.5°	673.5	580.9	605.8	462.1	388.4
70°	542.9	489.4	508.4	344.5	300.5
72.5°	428.8	413.4	384.9	268.5	234.0
75°	332.6	342.1	282.7	203.1	178.2
77.5°	254.2	278.0	205.5	146.1	122.4
80°	185.3	207.9	135.4	87.9	73.6
82.5°	122.4	130.7	71.3	45.1	39.2
85°	64.1	60.6	28.5	26.1	24.9
87.5°	27.3	15.4	14.3	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)