

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: P289499

Luminaire Tested: **4RSRK-RM-150-HE-L940**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289499
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-150-HE-L940
Description: 4ft RSRK, 1500 LUMEN PER FOOT 90CRI 4000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

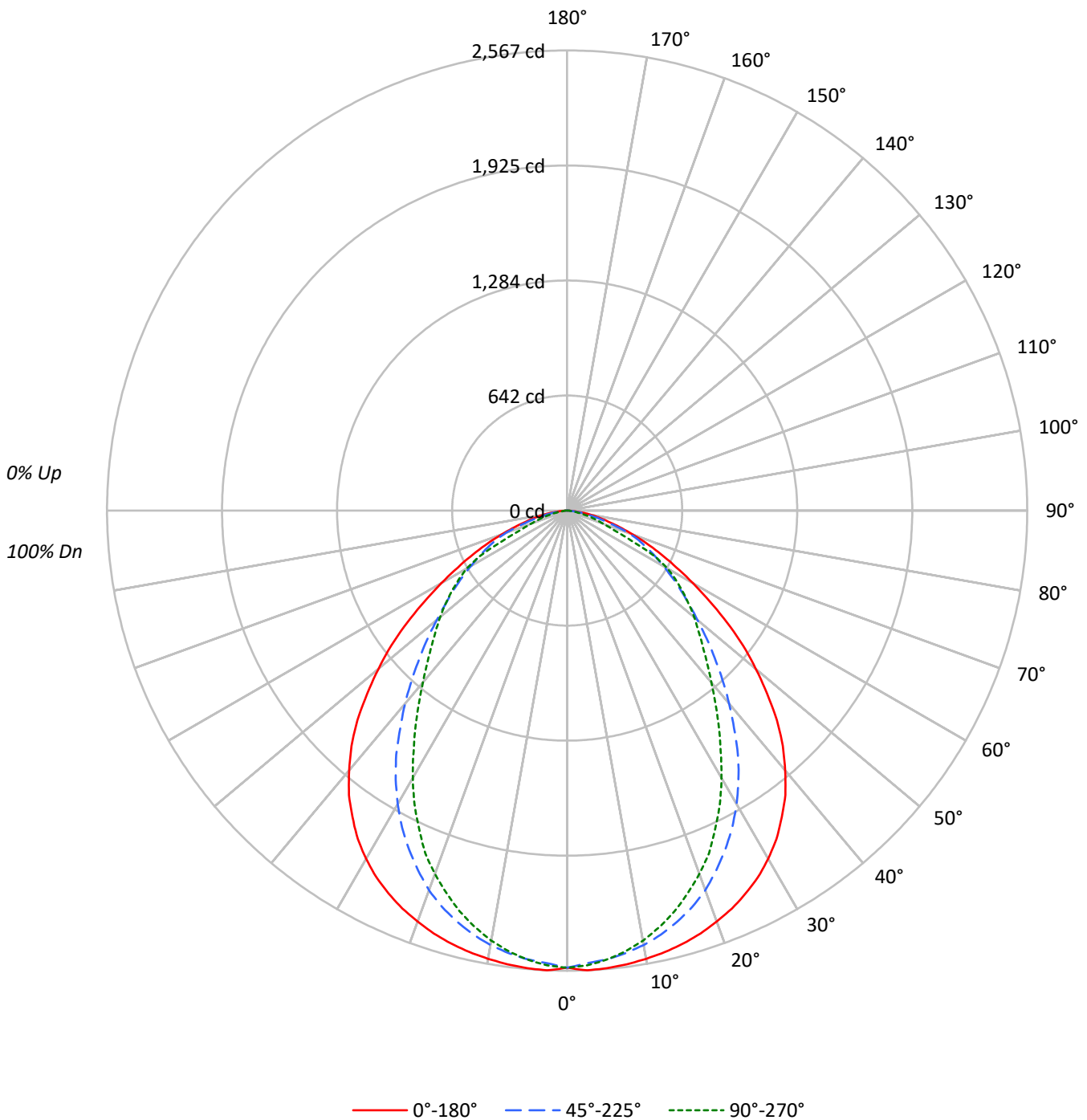
Lumens per Lamp: N/A
Luminaire Lumens: 5413.6 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.2
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°	6862	6862	6862
5°	6920	6790	6795
10°	6938	6723	6656
15°	6968	6614	6449
20°	6985	6454	6176
25°	6999	6195	5808
30°	6969	5876	5353
35°	6860	5459	4845
40°	6646	4940	4396
45°	6298	4431	4067
50°	5756	3970	3875
55°	5109	3628	3688
60°	4358	3342	3479
65°	3680	3130	2483
70°	3043	2849	1685
75°	2463	2094	1319
80°	2046	1495	814
85°	1411	627	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	4.4
10°-20°	674.3	12.5
20°-30°	976.5	18.0
30°-40°	1071.8	19.8
40°-50°	968.4	17.9
50°-60°	755.1	13.9
60°-70°	478.0	8.8
70°-80°	209.3	3.9
80°-90°	40.2	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°	1890.7	34.9
0°-40°	2962.6	54.7
0°-60°	4686.1	86.6
0°-90°	5413.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5413.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2550	2550	2550	2550	2550	
5°	2562	2545	2514	2527	2515	244
15°	2501	2454	2374	2345	2315	706
25°	2357	2254	2086	2008	1956	1086
35°	2088	1901	1662	1529	1475	1304
45°	1655	1393	1164	1095	1069	1269
55°	1089	873	773	784	786	973
65°	578	481	492	470	390	579
75°	237	244	201	145	127	259
85°	46	43	20	19	18	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2550.0	2550.0	2550.0	2550.0	2550.0
2.5°	2567.0	2552.6	2527.2	2546.7	2539.9
5°	2561.9	2545.0	2513.7	2527.2	2515.4
7.5°	2552.6	2532.3	2490.8	2495.1	2480.7
10°	2539.0	2512.0	2460.4	2455.3	2435.8
12.5°	2522.1	2485.7	2422.3	2404.5	2379.1
15°	2501.0	2454.4	2374.1	2345.3	2314.8
17.5°	2473.9	2414.7	2319.1	2272.5	2237.8
20°	2439.2	2368.1	2253.9	2193.0	2156.6
22.5°	2402.8	2314.8	2172.7	2109.2	2068.6
25°	2357.1	2253.9	2086.4	2007.7	1956.1
27.5°	2305.5	2183.7	1993.3	1896.0	1844.4
30°	2242.9	2101.6	1891.0	1774.2	1722.6
32.5°	2173.5	2008.6	1779.3	1654.9	1594.8
35°	2088.1	1901.1	1661.7	1528.8	1474.7
37.5°	2000.1	1785.2	1529.7	1406.2	1359.6
40°	1891.8	1662.5	1406.2	1292.8	1251.3
42.5°	1781.0	1526.3	1282.6	1188.7	1154.9
45°	1654.9	1392.6	1164.2	1094.8	1068.6
47.5°	1513.6	1259.8	1055.0	1011.9	993.3
50°	1374.9	1127.0	948.4	931.5	925.6
52.5°	1237.0	996.7	856.2	857.9	854.5
55°	1088.9	873.1	773.3	784.3	786.0
57.5°	941.7	755.5	695.5	715.8	717.5
60°	809.7	654.9	621.0	645.5	646.4
62.5°	687.9	560.9	553.3	577.0	549.1
65°	577.9	480.6	491.6	470.4	390.0
67.5°	479.7	413.7	431.5	329.1	276.7
70°	386.7	348.6	362.1	245.4	214.1
72.5°	305.4	294.4	274.1	191.2	166.7
75°	236.9	243.7	201.4	144.7	126.9
77.5°	181.1	198.0	146.4	104.1	87.1
80°	132.0	148.1	96.5	62.6	52.5
82.5°	87.1	93.1	50.8	32.2	27.9
85°	45.7	43.1	20.3	18.6	17.8
87.5°	19.5	11.0	10.2	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)