

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: P289520

Luminaire Tested: **6RSRK-RM-50-HE-L850**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P289520  
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: 6RSRK-RM-50-HE-L850  
Description: 6ft RSRK, 500 LUMEN PER FOOT 80CRI 5000K CCT WITH ROUND MEDIUM LENS  
Light Source: -  
Ballast/Driver: -

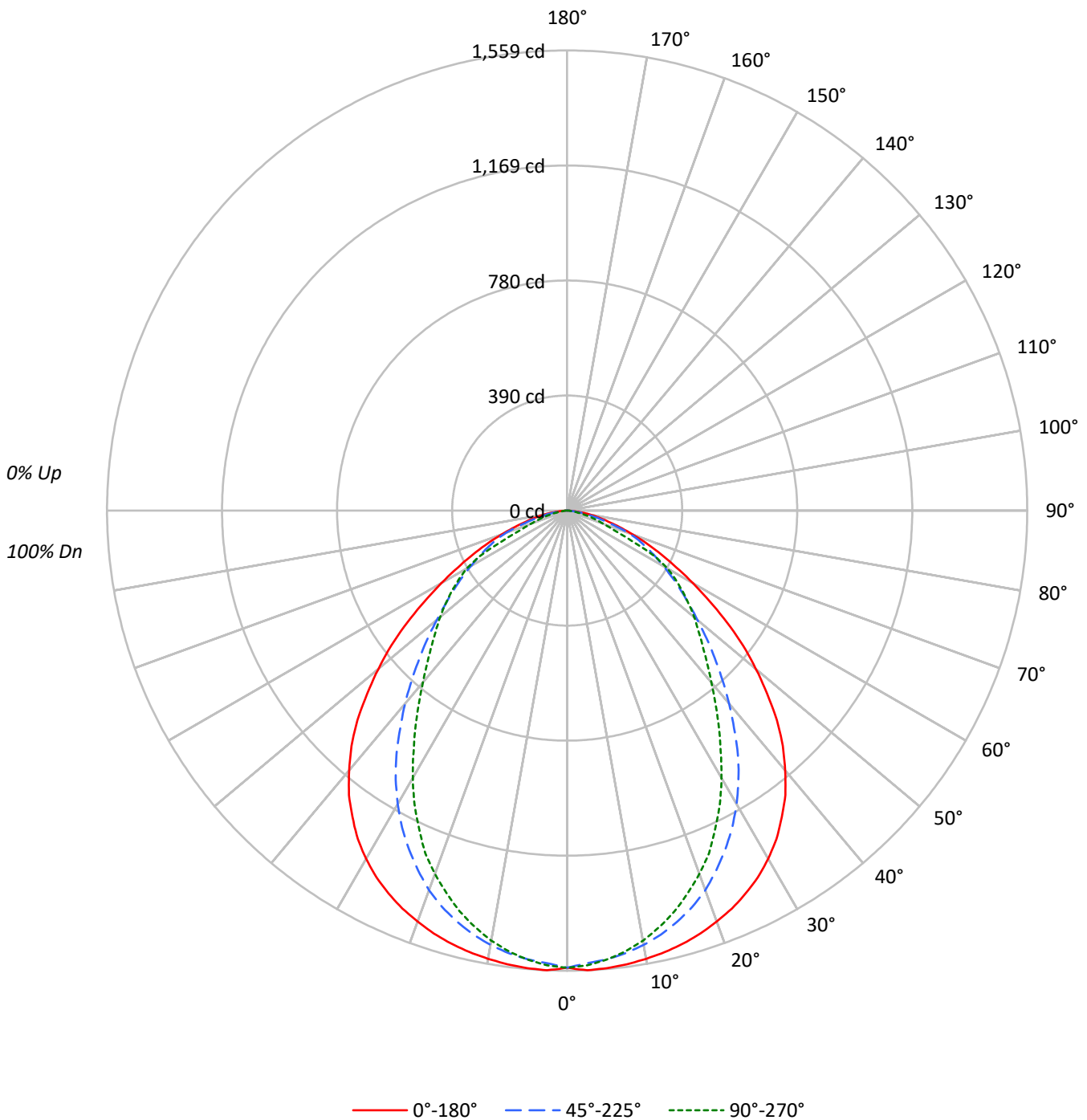
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3287.6 lumens  
Efficiency: N/A  
Efficacy: 229.9 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 6' 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	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°	2778	2778	2778
5°	2802	2749	2751
10°	2809	2722	2695
15°	2821	2678	2611
20°	2828	2613	2500
25°	2834	2508	2351
30°	2822	2379	2167
35°	2777	2210	1961
40°	2691	2000	1780
45°	2550	1794	1646
50°	2330	1608	1569
55°	2068	1469	1493
60°	1764	1353	1409
65°	1490	1267	1006
70°	1232	1153	682
75°	997	848	534
80°	829	605	330
85°	570	253	222



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.7	4.4
10°-20°	409.5	12.5
20°-30°	593.1	18.0
30°-40°	650.9	19.8
40°-50°	588.1	17.9
50°-60°	458.6	13.9
60°-70°	290.3	8.8
70°-80°	127.1	3.9
80°-90°	24.4	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°	1148.2	34.9
0°-40°	1799.2	54.7
0°-60°	2845.9	86.6
0°-90°	3287.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3287.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1556	1546	1526	1535	1528	148
15°	1519	1491	1442	1424	1406	429
25°	1432	1369	1267	1219	1188	659
35°	1268	1154	1009	928	896	792
45°	1005	846	707	665	649	771
55°	661	530	470	476	477	591
65°	351	292	298	286	237	352
75°	144	148	122	88	77	157
85°	28	26	12	11	11	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1548.6	1548.6	1548.6	1548.6	1548.6
2.5°	1558.9	1550.2	1534.8	1546.6	1542.5
5°	1555.8	1545.6	1526.5	1534.8	1527.6
7.5°	1550.2	1537.8	1512.7	1515.2	1506.5
10°	1542.0	1525.5	1494.2	1491.1	1479.3
12.5°	1531.7	1509.6	1471.1	1460.3	1444.8
15°	1518.8	1490.6	1441.8	1424.3	1405.8
17.5°	1502.4	1466.4	1408.4	1380.1	1359.0
20°	1481.3	1438.2	1368.8	1331.8	1309.7
22.5°	1459.2	1405.8	1319.5	1280.9	1256.3
25°	1431.5	1368.8	1267.1	1219.3	1187.9
27.5°	1400.1	1326.2	1210.5	1151.5	1120.1
30°	1362.1	1276.3	1148.4	1077.5	1046.1
32.5°	1320.0	1219.8	1080.6	1005.0	968.5
35°	1268.1	1154.5	1009.1	928.5	895.6
37.5°	1214.7	1084.1	929.0	854.0	825.7
40°	1148.9	1009.6	854.0	785.1	759.9
42.5°	1081.6	926.9	778.9	721.9	701.4
45°	1005.0	845.7	707.0	664.9	648.9
47.5°	919.2	765.1	640.7	614.5	603.2
50°	834.9	684.4	576.0	565.7	562.1
52.5°	751.2	605.3	520.0	521.0	519.0
55°	661.3	530.3	469.6	476.3	477.3
57.5°	571.9	458.8	422.4	434.7	435.7
60°	491.7	397.7	377.1	392.0	392.6
62.5°	417.7	340.7	336.0	350.4	333.5
65°	350.9	291.8	298.5	285.7	236.9
67.5°	291.3	251.3	262.0	199.9	168.0
70°	234.8	211.7	219.9	149.0	130.0
72.5°	185.5	178.8	166.5	116.1	101.2
75°	143.9	148.0	122.3	87.9	77.1
77.5°	110.0	120.2	88.9	63.2	52.9
80°	80.2	89.9	58.6	38.0	31.9
82.5°	52.9	56.5	30.8	19.5	17.0
85°	27.7	26.2	12.3	11.3	10.8
87.5°	11.8	6.7	6.2	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)