

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: P289562

Luminaire Tested: **8RSRK-RM-65-HE-L940**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P289562  
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: 8RSRK-RM-65-HE-L940  
Description: 8ft RSRK, 650 LUMEN PER FOOT 90CRI 4000K CCT WITH ROUND MEDIUM LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

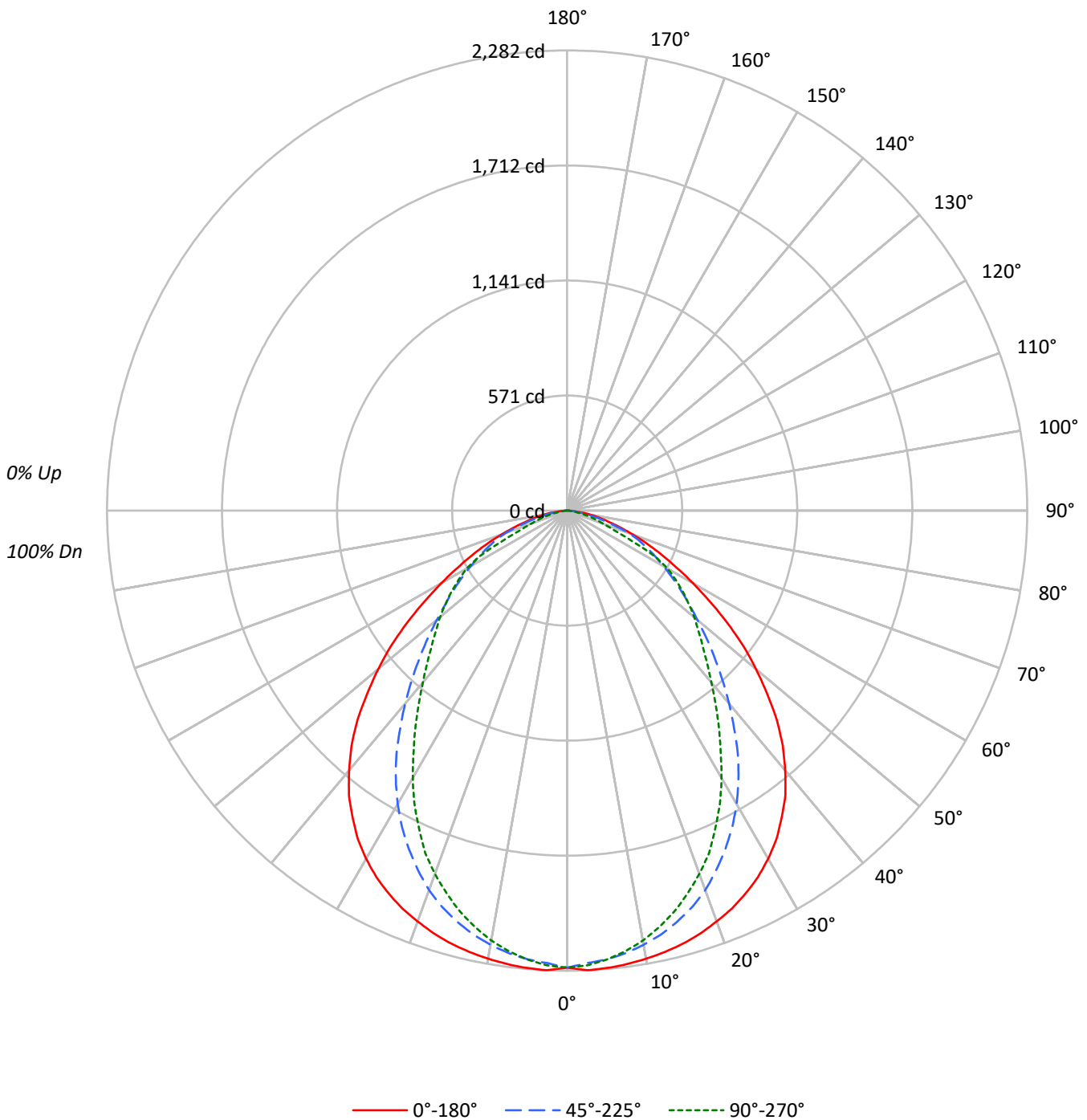
Lumens per Lamp: N/A  
Luminaire Lumens: 4811.6 lumens  
Efficiency: N/A  
Efficacy: 254.6 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.9  
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				
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°	3050	3050	3050
5°	3075	3018	3020
10°	3083	2988	2958
15°	3096	2939	2866
20°	3104	2868	2745
25°	3110	2753	2581
30°	3097	2611	2379
35°	3048	2426	2153
40°	2953	2195	1953
45°	2799	1969	1807
50°	2558	1765	1722
55°	2270	1612	1639
60°	1937	1485	1546
65°	1635	1391	1104
70°	1352	1266	749
75°	1095	931	586
80°	909	664	361
85°	627	278	244



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.3	4.4
10°-20°	599.3	12.5
20°-30°	868.0	18.0
30°-40°	952.7	19.8
40°-50°	860.7	17.9
50°-60°	671.1	13.9
60°-70°	424.9	8.8
70°-80°	186.0	3.9
80°-90°	35.7	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°	1680.5	34.9
0°-40°	2633.2	54.7
0°-60°	4165.1	86.6
0°-90°	4811.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4811.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2266	2266	2266	2266	2266	
5°	2277	2262	2234	2246	2236	217
15°	2223	2182	2110	2084	2058	628
25°	2095	2003	1854	1784	1739	965
35°	1856	1690	1477	1359	1311	1159
45°	1471	1238	1035	973	950	1128
55°	968	776	687	697	699	865
65°	514	427	437	418	347	515
75°	211	217	179	129	113	230
85°	41	38	18	16	16	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2266.5	2266.5	2266.5	2266.5	2266.5
2.5°	2281.6	2268.8	2246.2	2263.5	2257.5
5°	2277.0	2262.0	2234.2	2246.2	2235.7
7.5°	2268.8	2250.7	2213.9	2217.6	2204.9
10°	2256.7	2232.7	2186.8	2182.3	2165.0
12.5°	2241.7	2209.4	2153.0	2137.2	2114.6
15°	2222.9	2181.5	2110.1	2084.5	2057.5
17.5°	2198.8	2146.2	2061.2	2019.9	1989.0
20°	2168.0	2104.8	2003.3	1949.2	1916.8
22.5°	2135.7	2057.5	1931.1	1874.7	1838.6
25°	2095.1	2003.3	1854.4	1784.5	1738.6
27.5°	2049.2	1940.9	1771.7	1685.2	1639.4
30°	1993.5	1868.0	1680.7	1576.9	1531.1
32.5°	1931.9	1785.2	1581.5	1470.9	1417.5
35°	1855.9	1689.7	1476.9	1358.9	1310.7
37.5°	1777.7	1586.7	1359.6	1249.8	1208.5
40°	1681.5	1477.7	1249.8	1149.1	1112.2
42.5°	1583.0	1356.6	1140.0	1056.6	1026.5
45°	1470.9	1237.8	1034.7	973.1	949.8
47.5°	1345.3	1119.7	937.7	899.4	882.8
50°	1222.0	1001.7	843.0	827.9	822.7
52.5°	1099.4	885.9	761.0	762.5	759.5
55°	967.8	776.1	687.3	697.1	698.6
57.5°	837.0	671.5	618.1	636.2	637.7
60°	719.7	582.0	552.0	573.8	574.5
62.5°	611.4	498.6	491.8	512.9	488.0
65°	513.6	427.1	436.9	418.1	346.7
67.5°	426.4	367.7	383.5	292.5	245.9
70°	343.7	309.8	321.9	218.1	190.3
72.5°	271.5	261.7	243.6	170.0	148.1
75°	210.6	216.6	179.0	128.6	112.8
77.5°	160.9	176.0	130.1	92.5	77.5
80°	117.3	131.6	85.7	55.6	46.6
82.5°	77.5	82.7	45.1	28.6	24.8
85°	40.6	38.4	18.0	16.5	15.8
87.5°	17.3	9.8	9.0	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)