

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: P289589

Luminaire Tested: **8RSRK-RM-200-HE-L835**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P289589  
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-200-HE-L835  
Description: 8ft RSRK, 2000 LUMEN PER FOOT 80CRI 3500K CCT WITH ROUND MEDIUM LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

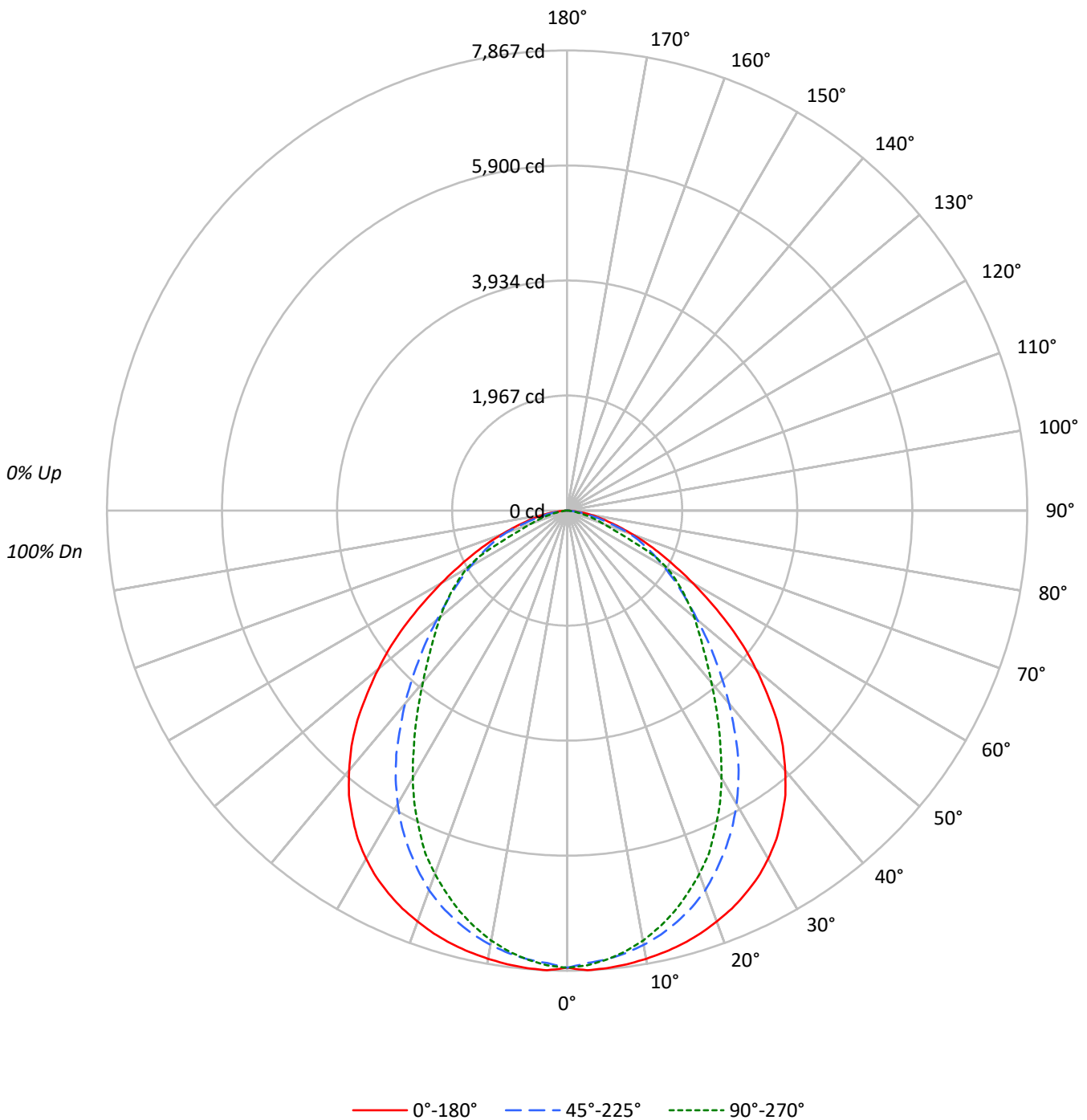
Lumens per Lamp: N/A  
Luminaire Lumens: 16590.1 lumens  
Efficiency: N/A  
Efficacy: 271.1 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	10515	10515	10515
5°	10604	10404	10411
10°	10631	10301	10199
15°	10676	10134	9881
20°	10703	9890	9463
25°	10724	9492	8899
30°	10679	9003	8202
35°	10511	8364	7423
40°	10183	7569	6735
45°	9650	6789	6231
50°	8819	6084	5937
55°	7828	5559	5650
60°	6677	5121	5331
65°	5638	4796	3805
70°	4661	4366	2581
75°	3774	3208	2022
80°	3134	2290	1246
85°	2161	960	840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	735.3	4.4
10°-20°	2066.3	12.5
20°-30°	2992.7	18.0
30°-40°	3284.7	19.8
40°-50°	2967.8	17.9
50°-60°	2314.0	13.9
60°-70°	1464.9	8.8
70°-80°	641.4	3.9
80°-90°	123.0	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°	5794.3	34.9
0°-40°	9079.0	54.7
0°-60°	14360.8	86.6
0°-90°	16590.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16590.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7815	7815	7815	7815	7815	
5°	7851	7799	7703	7745	7708	747
15°	7664	7522	7275	7187	7094	2164
25°	7224	6907	6394	6153	5995	3328
35°	6399	5826	5092	4685	4519	3996
45°	5072	4268	3568	3355	3275	3889
55°	3337	2676	2370	2404	2409	2982
65°	1771	1473	1506	1442	1195	1774
75°	726	747	617	443	389	793
85°	140	132	62	57	54	182
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7814.7	7814.7	7814.7	7814.7	7814.7
2.5°	7866.6	7822.5	7744.7	7804.4	7783.6
5°	7851.0	7799.2	7703.3	7744.7	7708.4
7.5°	7822.5	7760.3	7633.3	7646.2	7602.1
10°	7781.0	7698.1	7539.9	7524.4	7464.7
12.5°	7729.2	7617.7	7423.2	7368.8	7291.0
15°	7664.4	7521.8	7275.4	7187.3	7093.9
17.5°	7581.4	7399.9	7106.9	6964.3	6858.0
20°	7475.1	7257.3	6907.3	6720.6	6609.1
22.5°	7363.6	7093.9	6658.4	6463.9	6339.4
25°	7223.6	6907.3	6393.9	6152.8	5994.6
27.5°	7065.4	6692.1	6108.7	5810.5	5652.3
30°	6873.6	6440.6	5794.9	5437.1	5279.0
32.5°	6660.9	6155.3	5452.7	5071.5	4887.5
35°	6399.1	5826.1	5092.3	4685.2	4519.3
37.5°	6129.4	5470.8	4687.8	4309.3	4166.7
40°	5797.5	5094.9	4309.3	3961.8	3834.8
42.5°	5457.9	4677.4	3930.7	3642.9	3539.2
45°	5071.5	4267.8	3567.7	3355.1	3274.7
47.5°	4638.5	3860.7	3233.2	3101.0	3044.0
50°	4213.3	3453.6	2906.5	2854.7	2836.5
52.5°	3790.7	3054.3	2623.9	2629.1	2618.7
55°	3337.0	2675.8	2369.8	2403.5	2408.7
57.5°	2885.8	2315.4	2131.3	2193.5	2198.7
60°	2481.3	2006.8	1903.1	1978.3	1980.9
62.5°	2108.0	1719.0	1695.7	1768.3	1682.7
65°	1770.9	1472.7	1506.4	1441.6	1195.3
67.5°	1470.1	1267.9	1322.3	1008.6	847.9
70°	1184.9	1068.2	1109.7	751.9	656.0
72.5°	936.0	902.3	840.1	586.0	510.8
75°	726.0	746.7	617.1	443.4	388.9
77.5°	554.9	606.7	448.6	318.9	267.1
80°	404.5	453.7	295.6	191.9	160.8
82.5°	267.1	285.2	155.6	98.5	85.6
85°	140.0	132.2	62.2	57.0	54.4
87.5°	59.6	33.7	31.1	25.9	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)