

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: P289580

Luminaire Tested: **8RSRK-RM-150-HE-L830**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289580
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-150-HE-L830
Description: 8ft RSRK, 1500 LUMEN PER FOOT 80CRI 3000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

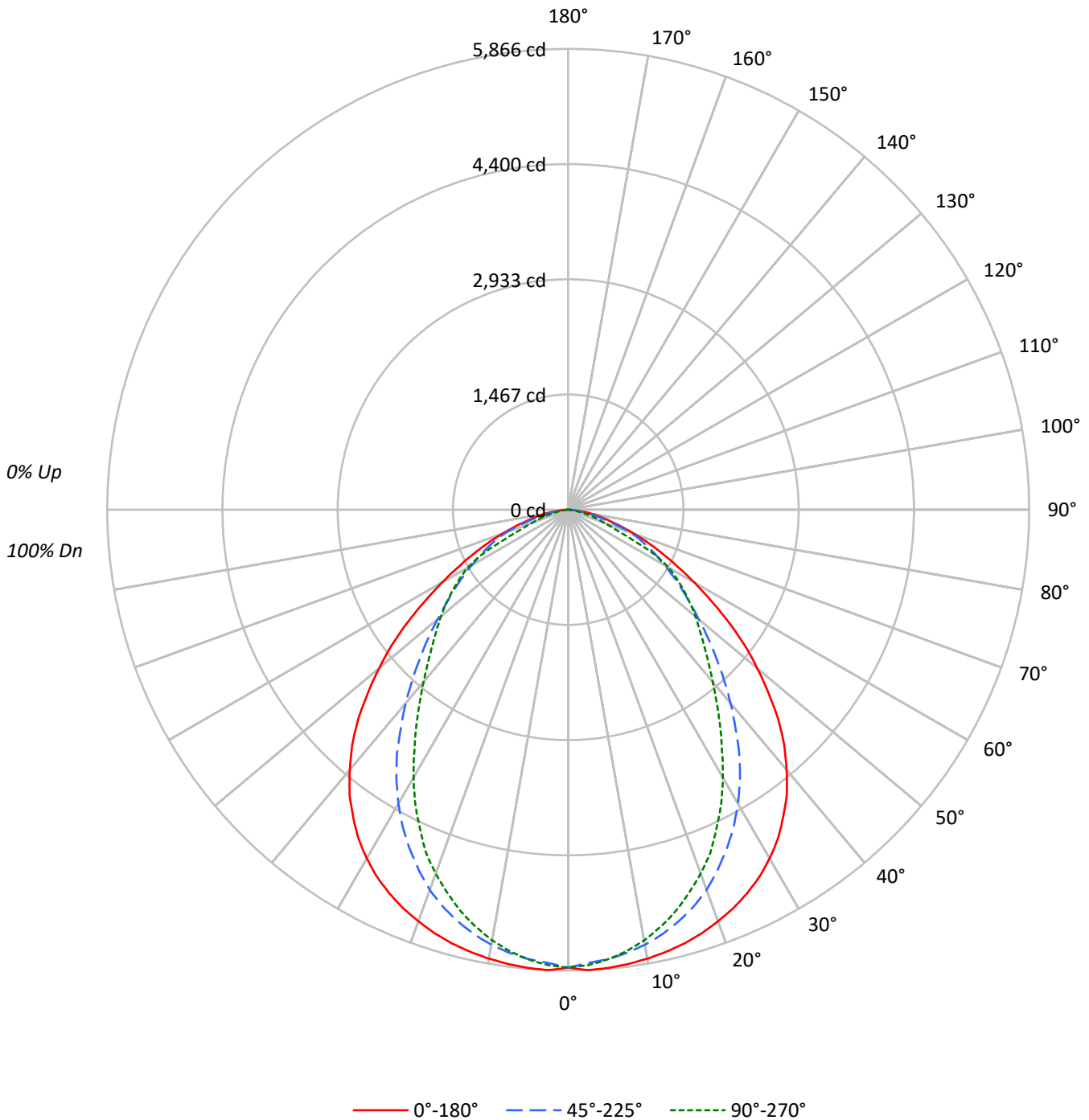
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12371.2 lumens
Efficiency: N/A
Efficacy: 279.9 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): 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				
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°	7841	7841	7841
5°	7907	7758	7764
10°	7927	7682	7605
15°	7961	7557	7369
20°	7981	7375	7057
25°	7997	7078	6636
30°	7963	6714	6116
35°	7838	6237	5535
40°	7593	5644	5023
45°	7196	5062	4647
50°	6577	4537	4428
55°	5837	4145	4214
60°	4979	3819	3975
65°	4204	3576	2838
70°	3476	3255	1924
75°	2815	2392	1508
80°	2337	1708	929
85°	1612	716	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.3	4.4
10°-20°	1540.8	12.5
20°-30°	2231.6	18.0
30°-40°	2449.4	19.8
40°-50°	2213.0	17.9
50°-60°	1725.6	13.9
60°-70°	1092.4	8.8
70°-80°	478.3	3.9
80°-90°	91.7	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°	4320.8	34.9
0°-40°	6770.2	54.7
0°-60°	10708.8	86.6
0°-90°	12371.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12371.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5827	5827	5827	5827	5827	
5°	5854	5816	5744	5775	5748	557
15°	5715	5609	5425	5360	5290	1614
25°	5387	5151	4768	4588	4470	2481
35°	4772	4344	3797	3494	3370	2980
45°	3782	3182	2660	2502	2442	2900
55°	2488	1995	1767	1792	1796	2223
65°	1320	1098	1123	1075	891	1323
75°	541	557	460	331	290	592
85°	104	99	46	42	41	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5827.4	5827.4	5827.4	5827.4	5827.4
2.5°	5866.1	5833.2	5775.2	5819.7	5804.2
5°	5854.5	5815.8	5744.3	5775.2	5748.2
7.5°	5833.2	5786.8	5692.1	5701.8	5668.9
10°	5802.3	5740.4	5622.5	5610.9	5566.4
12.5°	5763.6	5680.5	5535.5	5494.9	5436.9
15°	5715.3	5609.0	5425.3	5359.5	5289.9
17.5°	5653.4	5518.1	5299.6	5193.3	5114.0
20°	5574.1	5411.7	5150.7	5011.5	4928.4
22.5°	5491.0	5289.9	4965.1	4820.1	4727.3
25°	5386.6	5150.7	4767.9	4588.1	4470.1
27.5°	5268.7	4990.2	4555.2	4332.9	4214.9
30°	5125.6	4802.7	4321.3	4054.5	3936.5
32.5°	4967.0	4590.0	4066.1	3781.8	3644.6
35°	4771.8	4344.5	3797.3	3493.8	3370.0
37.5°	4570.7	4079.6	3495.7	3213.4	3107.1
40°	4323.2	3799.2	3213.4	2954.3	2859.6
42.5°	4069.9	3488.0	2931.1	2716.5	2639.2
45°	3781.8	3182.5	2660.4	2501.9	2442.0
47.5°	3458.9	2878.9	2411.0	2312.4	2269.9
50°	3141.9	2575.4	2167.4	2128.7	2115.2
52.5°	2826.7	2277.6	1956.7	1960.5	1952.8
55°	2488.4	1995.3	1767.2	1792.3	1796.2
57.5°	2151.9	1726.6	1589.3	1635.7	1639.6
60°	1850.3	1496.5	1419.2	1475.2	1477.2
62.5°	1571.9	1281.9	1264.5	1318.6	1254.8
65°	1320.5	1098.2	1123.3	1075.0	891.3
67.5°	1096.3	945.5	986.1	752.1	632.2
70°	883.6	796.6	827.5	560.7	489.2
72.5°	698.0	672.8	626.4	437.0	380.9
75°	541.4	556.8	460.2	330.6	290.0
77.5°	413.8	452.4	334.5	237.8	199.1
80°	301.6	338.4	220.4	143.1	119.9
82.5°	199.1	212.7	116.0	73.5	63.8
85°	104.4	98.6	46.4	42.5	40.6
87.5°	44.5	25.1	23.2	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)