

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: P289583

Luminaire Tested: **8RSRK-RM-150-HE-L850**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289583
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-L850
Description: 8ft RSRK, 1500 LUMEN PER FOOT 80CRI 5000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

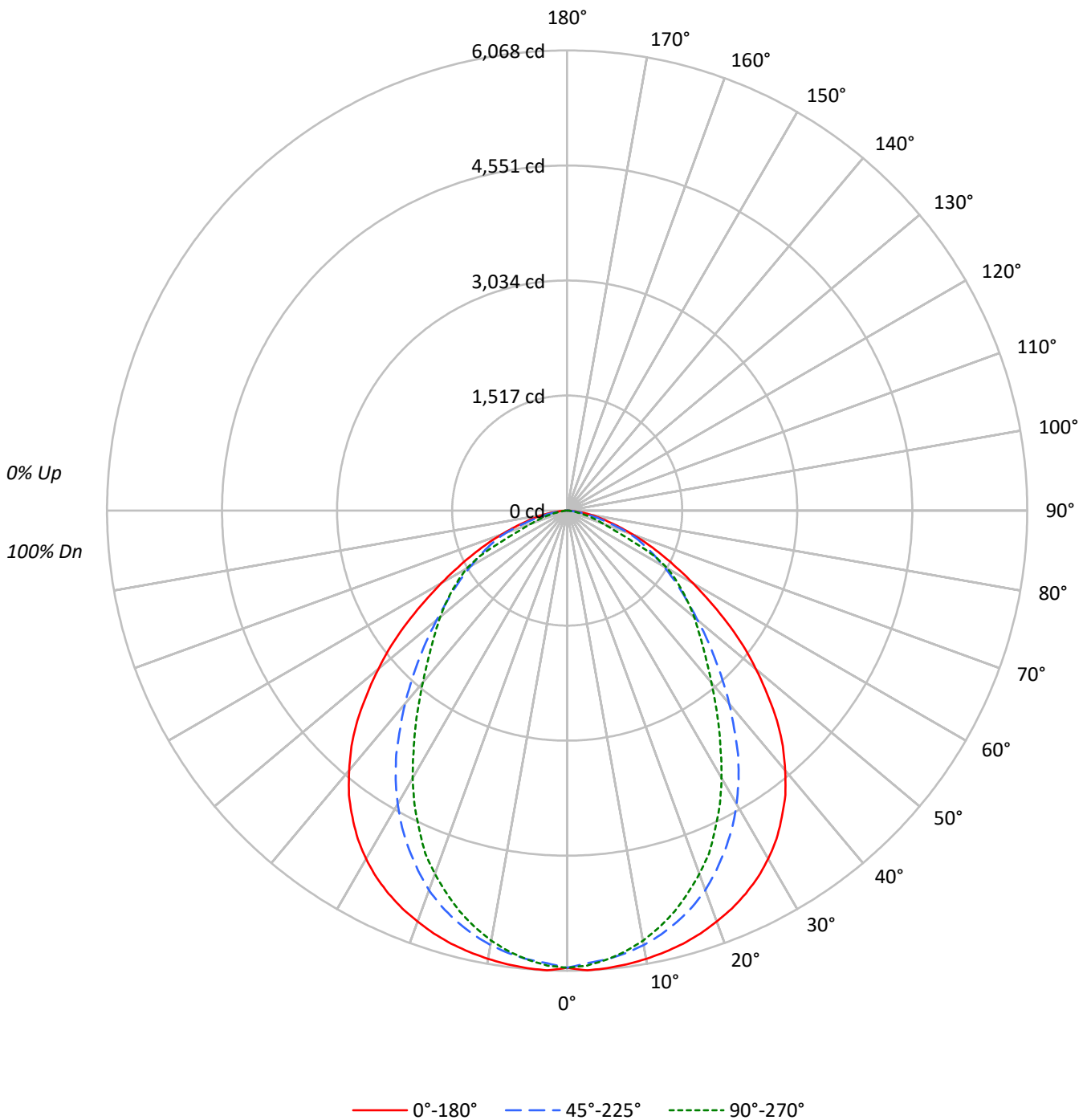
Lumens per Lamp: N/A
Luminaire Lumens: 12798.0 lumens
Efficiency: N/A
Efficacy: 289.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P289583

CATALOG NUMBER: 8RSRK-RM-150-HE-L850

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°	8111	8111	8111
5°	8180	8026	8032
10°	8201	7947	7868
15°	8236	7818	7623
20°	8257	7629	7300
25°	8273	7323	6865
30°	8238	6945	6327
35°	8108	6452	5726
40°	7855	5839	5196
45°	7444	5237	4807
50°	6804	4693	4580
55°	6039	4288	4359
60°	5151	3951	4112
65°	4349	3700	2936
70°	3596	3368	1991
75°	2911	2475	1560
80°	2417	1767	961
85°	1667	741	648



TEST NUMBER: P289583

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.2	4.4
10°-20°	1594.0	12.5
20°-30°	2308.6	18.0
30°-40°	2533.9	19.8
40°-50°	2289.4	17.9
50°-60°	1785.1	13.9
60°-70°	1130.0	8.8
70°-80°	494.8	3.9
80°-90°	94.9	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°	4469.9	34.9
0°-40°	7003.8	54.7
0°-60°	11078.3	86.6
0°-90°	12798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6028	6028	6028	6028	6028	
5°	6056	6016	5942	5974	5946	576
15°	5912	5802	5612	5544	5472	1670
25°	5572	5328	4932	4746	4624	2567
35°	4936	4494	3928	3614	3486	3082
45°	3912	3292	2752	2588	2526	3000
55°	2574	2064	1828	1854	1858	2300
65°	1366	1136	1162	1112	922	1369
75°	560	576	476	342	300	612
85°	108	102	48	44	42	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6028.5	6028.5	6028.5	6028.5	6028.5
2.5°	6068.5	6034.5	5974.5	6020.5	6004.5
5°	6056.5	6016.5	5942.5	5974.5	5946.5
7.5°	6034.5	5986.5	5888.5	5898.5	5864.5
10°	6002.5	5938.5	5816.5	5804.5	5758.5
12.5°	5962.5	5876.5	5726.5	5684.5	5624.4
15°	5912.5	5802.5	5612.4	5544.4	5472.4
17.5°	5848.5	5708.5	5482.4	5372.4	5290.4
20°	5766.5	5598.4	5328.4	5184.4	5098.4
22.5°	5680.5	5472.4	5136.4	4986.4	4890.4
25°	5572.4	5328.4	4932.4	4746.4	4624.4
27.5°	5450.4	5162.4	4712.4	4482.4	4360.3
30°	5302.4	4968.4	4470.4	4194.3	4072.3
32.5°	5138.4	4748.4	4206.3	3912.3	3770.3
35°	4936.4	4494.4	3928.3	3614.3	3486.3
37.5°	4728.4	4220.3	3616.3	3324.3	3214.3
40°	4472.4	3930.3	3324.3	3056.2	2958.2
42.5°	4210.3	3608.3	3032.2	2810.2	2730.2
45°	3912.3	3292.3	2752.2	2588.2	2526.2
47.5°	3578.3	2978.2	2494.2	2392.2	2348.2
50°	3250.3	2664.2	2242.2	2202.2	2188.2
52.5°	2924.2	2356.2	2024.2	2028.2	2020.2
55°	2574.2	2064.2	1828.1	1854.1	1858.1
57.5°	2226.2	1786.1	1644.1	1692.1	1696.1
60°	1914.2	1548.1	1468.1	1526.1	1528.1
62.5°	1626.1	1326.1	1308.1	1364.1	1298.1
65°	1366.1	1136.1	1162.1	1112.1	922.1
67.5°	1134.1	978.1	1020.1	778.1	654.1
70°	914.1	824.1	856.1	580.0	506.0
72.5°	722.1	696.1	648.1	452.0	394.0
75°	560.0	576.0	476.0	342.0	300.0
77.5°	428.0	468.0	346.0	246.0	206.0
80°	312.0	350.0	228.0	148.0	124.0
82.5°	206.0	220.0	120.0	76.0	66.0
85°	108.0	102.0	48.0	44.0	42.0
87.5°	46.0	26.0	24.0	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)