

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: P289556

Luminaire Tested: **8RSRK-RM-50-HE-L830**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289556
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-50-HE-L830
Description: 8ft RSRK, 500 LUMEN PER FOOT 80CRI 3000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

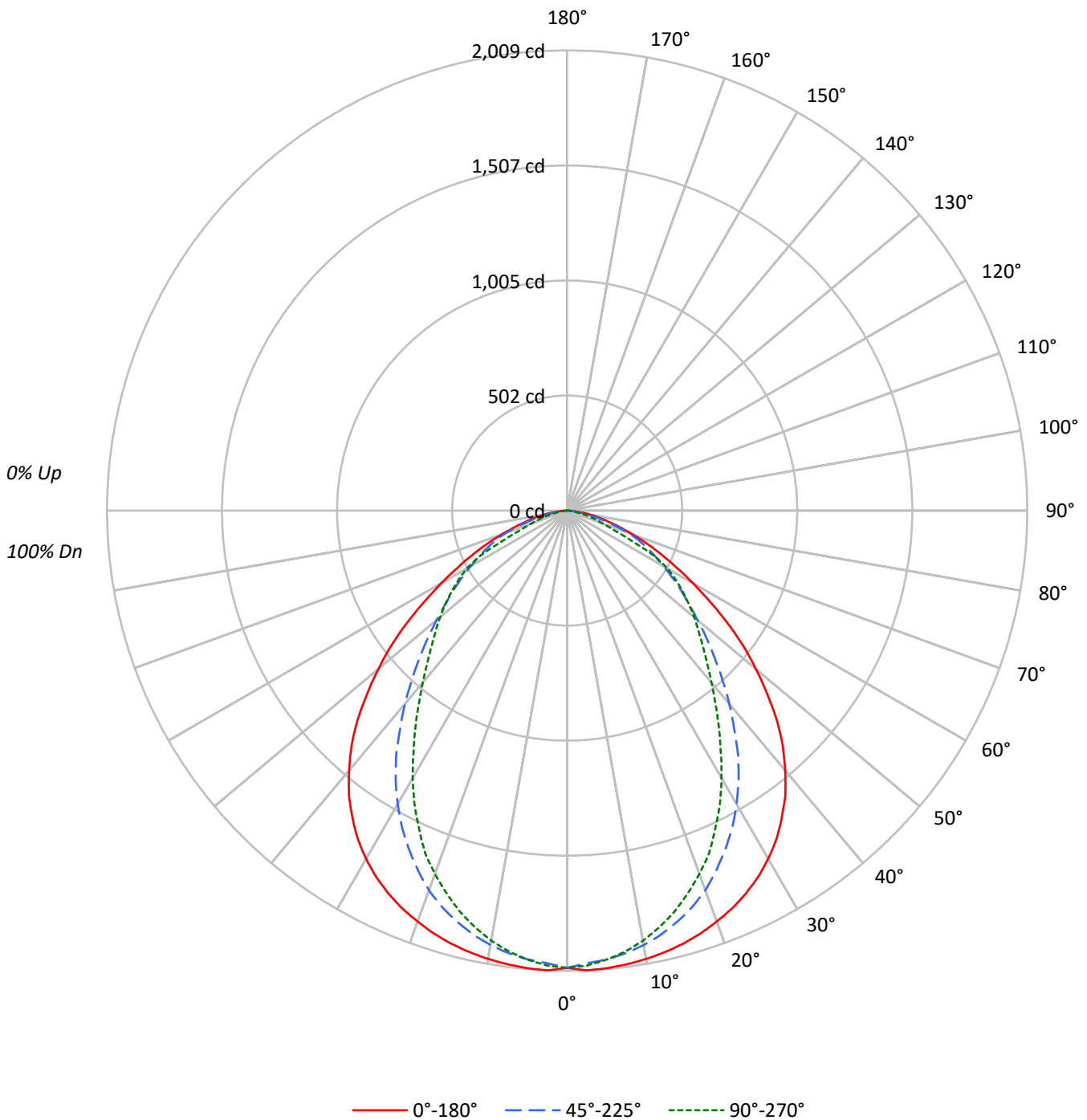
Lumens per Lamp: N/A
Luminaire Lumens: 4237.3 lumens
Efficiency: N/A
Efficacy: 296.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P289556

CATALOG NUMBER: 8RSRK-RM-50-HE-L830

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°	2686	2686	2686
5°	2708	2657	2659
10°	2715	2631	2605
15°	2727	2588	2524
20°	2734	2526	2417
25°	2739	2424	2273
30°	2728	2300	2095
35°	2685	2136	1896
40°	2601	1933	1720
45°	2465	1734	1592
50°	2253	1554	1517
55°	1999	1420	1443
60°	1706	1308	1362
65°	1440	1225	972
70°	1190	1115	659
75°	964	819	516
80°	800	585	318
85°	553	245	215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	4.4
10°-20°	527.8	12.5
20°-30°	764.4	18.0
30°-40°	839.0	19.8
40°-50°	758.0	17.9
50°-60°	591.0	13.9
60°-70°	374.1	8.8
70°-80°	163.8	3.9
80°-90°	31.4	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°	1479.9	34.9
0°-40°	2318.9	54.7
0°-60°	3667.9	86.6
0°-90°	4237.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4237.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1996	1996	1996	1996	1996	
5°	2005	1992	1968	1978	1969	191
15°	1958	1921	1858	1836	1812	553
25°	1845	1764	1633	1572	1531	850
35°	1634	1488	1301	1197	1154	1021
45°	1295	1090	911	857	836	993
55°	852	683	605	614	615	762
65°	452	376	385	368	305	453
75°	185	191	158	113	99	203
85°	36	34	16	15	14	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1996.0	1996.0	1996.0	1996.0	1996.0
2.5°	2009.2	1998.0	1978.1	1993.3	1988.0
5°	2005.3	1992.0	1967.5	1978.1	1968.8
7.5°	1998.0	1982.1	1949.6	1952.9	1941.7
10°	1987.4	1966.2	1925.8	1921.8	1906.6
12.5°	1974.1	1945.7	1896.0	1882.1	1862.2
15°	1957.6	1921.2	1858.2	1835.7	1811.9
17.5°	1936.4	1890.0	1815.2	1778.8	1751.6
20°	1909.2	1853.6	1764.2	1716.5	1688.0
22.5°	1880.8	1811.9	1700.6	1651.0	1619.2
25°	1845.0	1764.2	1633.1	1571.5	1531.1
27.5°	1804.6	1709.2	1560.2	1484.1	1443.7
30°	1755.6	1645.0	1480.1	1388.7	1348.3
32.5°	1701.3	1572.2	1392.7	1295.3	1248.3
35°	1634.4	1488.0	1300.6	1196.7	1154.3
37.5°	1565.5	1397.3	1197.3	1100.6	1064.2
40°	1480.8	1301.3	1100.6	1011.9	979.5
42.5°	1394.0	1194.7	1004.0	930.4	904.0
45°	1295.3	1090.0	911.2	856.9	836.4
47.5°	1184.7	986.1	825.8	792.0	777.5
50°	1076.1	882.1	742.4	729.1	724.5
52.5°	968.2	780.1	670.2	671.5	668.9
55°	852.3	683.4	605.3	613.9	615.2
57.5°	737.1	591.4	544.4	560.3	561.6
60°	633.8	512.6	486.1	505.3	506.0
62.5°	538.4	439.1	433.1	451.6	429.8
65°	452.3	376.2	384.8	368.2	305.3
67.5°	375.5	323.8	337.7	257.6	216.6
70°	302.6	272.8	283.4	192.0	167.5
72.5°	239.1	230.5	214.6	149.7	130.5
75°	185.4	190.7	157.6	113.2	99.3
77.5°	141.7	155.0	114.6	81.5	68.2
80°	103.3	115.9	75.5	49.0	41.1
82.5°	68.2	72.8	39.7	25.2	21.9
85°	35.8	33.8	15.9	14.6	13.9
87.5°	15.2	8.6	7.9	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)