

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: P289517

Luminaire Tested: **6RSRK-RM-50-HE-L830**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289517
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: 6RSRK-RM-50-HE-L830
Description: 6ft RSRK, 500 LUMEN PER FOOT 80CRI 3000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

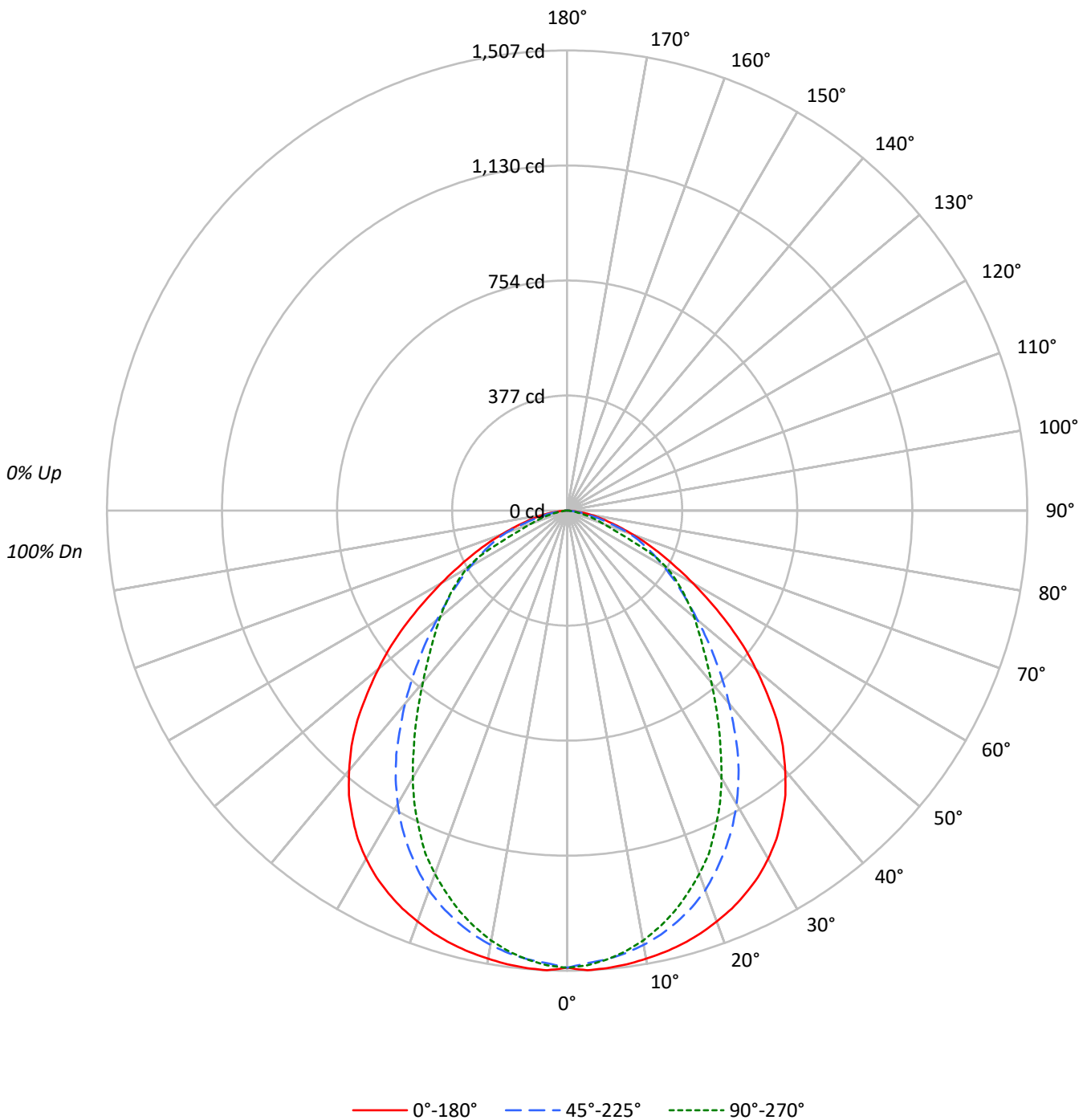
Lumens per Lamp: N/A
Luminaire Lumens: 3178.0 lumens
Efficiency: N/A
Efficacy: 222.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 6' x H: 0')
CIE Type: Direct

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

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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	1705	1308	1362
65°	1440	1225	972
70°	1191	1115	659
75°	964	819	516
80°	801	585	318
85°	552	245	214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	4.4
10°-20°	395.8	12.5
20°-30°	573.3	18.0
30°-40°	629.2	19.8
40°-50°	568.5	17.9
50°-60°	443.3	13.9
60°-70°	280.6	8.8
70°-80°	122.9	3.9
80°-90°	23.6	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°	1110.0	34.9
0°-40°	1739.2	54.7
0°-60°	2751.0	86.6
0°-90°	3178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1504	1494	1476	1484	1477	143
15°	1468	1441	1394	1377	1359	415
25°	1384	1323	1225	1179	1148	637
35°	1226	1116	976	898	866	765
45°	972	818	683	643	627	745
55°	639	513	454	460	461	571
65°	339	282	289	276	229	340
75°	139	143	118	85	74	152
85°	27	25	12	11	10	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1497.0	1497.0	1497.0	1497.0	1497.0
2.5°	1506.9	1498.5	1483.6	1495.0	1491.0
5°	1503.9	1494.0	1475.6	1483.6	1476.6
7.5°	1498.5	1486.6	1462.2	1464.7	1456.3
10°	1490.5	1474.6	1444.3	1441.4	1429.9
12.5°	1480.6	1459.2	1422.0	1411.6	1396.7
15°	1468.2	1440.9	1393.7	1376.8	1358.9
17.5°	1452.3	1417.5	1361.4	1334.1	1313.7
20°	1431.9	1390.2	1323.2	1287.4	1266.0
22.5°	1410.6	1358.9	1275.5	1238.2	1214.4
25°	1383.7	1323.2	1224.8	1178.6	1148.3
27.5°	1353.4	1281.9	1170.2	1113.1	1082.8
30°	1316.7	1233.8	1110.1	1041.5	1011.2
32.5°	1276.0	1179.1	1044.5	971.5	936.2
35°	1225.8	1116.0	975.5	897.5	865.7
37.5°	1174.1	1048.0	898.0	825.5	798.2
40°	1110.6	976.0	825.5	758.9	734.6
42.5°	1045.5	896.0	753.0	697.8	678.0
45°	971.5	817.5	683.4	642.7	627.3
47.5°	888.6	739.6	619.4	594.0	583.1
50°	807.1	661.6	556.8	546.8	543.4
52.5°	726.1	585.1	502.6	503.6	501.6
55°	639.2	512.6	454.0	460.4	461.4
57.5°	552.8	443.5	408.3	420.2	421.2
60°	475.3	384.4	364.6	379.0	379.5
62.5°	403.8	329.3	324.8	338.7	322.3
65°	339.2	282.1	288.6	276.2	229.0
67.5°	281.6	242.9	253.3	193.2	162.4
70°	227.0	204.6	212.6	144.0	125.7
72.5°	179.3	172.8	160.9	112.2	97.8
75°	139.1	143.0	118.2	84.9	74.5
77.5°	106.3	116.2	85.9	61.1	51.2
80°	77.5	86.9	56.6	36.8	30.8
82.5°	51.2	54.6	29.8	18.9	16.4
85°	26.8	25.3	11.9	10.9	10.4
87.5°	11.4	6.5	6.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)