

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: P#

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RSRK-TB-50-HE-L830
Description: 8ft RSRK, 500 LUMEN PER FOOT 80CRI 3000K CCT WITH TRILOBE RIBBED LENS
Light Source: -
Ballast/Driver: -

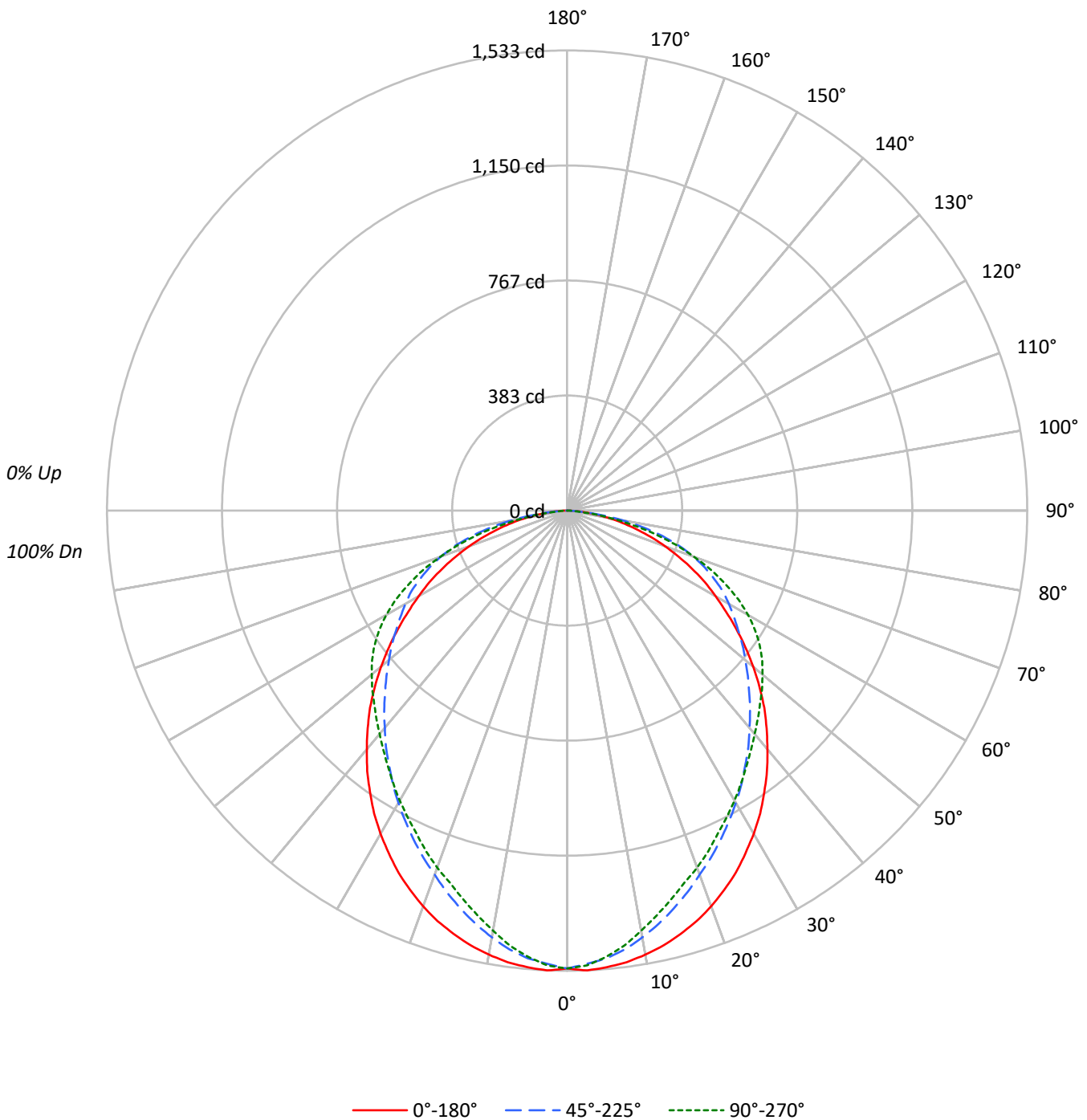
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3990.3 lumens
Efficiency: N/A
Efficacy: 279.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.26
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

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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83				
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69				
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58				
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49				
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43				
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37				
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33				
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30				
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2052	2052	2052
5°	2062	2022	2016
10°	2053	1973	1942
15°	2034	1911	1867
20°	2009	1848	1813
25°	1975	1796	1763
30°	1931	1747	1733
35°	1880	1700	1709
40°	1824	1660	1707
45°	1767	1632	1730
50°	1695	1621	1778
55°	1614	1632	1838
60°	1538	1673	1875
65°	1463	1726	1858
70°	1367	1762	1766
75°	1227	1710	1582
80°	1074	1451	1175
85°	806	767	496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	3.6
10°-20°	391.2	9.8
20°-30°	569.1	14.3
30°-40°	665.6	16.7
40°-50°	684.2	17.1
50°-60°	636.5	16.0
60°-70°	517.7	13.0
70°-80°	313.6	7.9
80°-90°	70.2	1.8
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°	1102.4	27.6
0°-40°	1768.1	44.3
0°-60°	3088.7	77.4
0°-90°	3990.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3990.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1525	1525	1525	1525	1525	
5°	1527	1518	1497	1500	1492	145
15°	1460	1429	1372	1352	1340	412
25°	1330	1274	1210	1197	1187	612
35°	1145	1084	1035	1041	1041	716
45°	929	869	858	896	909	715
55°	688	650	696	766	784	616
65°	460	451	542	585	584	455
75°	236	281	329	314	304	253
85°	52	72	50	36	32	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1525.4	1525.4	1525.4	1525.4	1525.4
2.5°	1533.4	1526.4	1511.3	1519.9	1516.4
5°	1526.9	1517.9	1497.3	1500.3	1492.3
7.5°	1517.4	1504.3	1474.7	1468.6	1461.6
10°	1502.3	1483.2	1444.0	1434.5	1421.4
12.5°	1483.7	1459.1	1409.9	1392.8	1380.7
15°	1460.1	1429.0	1372.2	1351.6	1340.1
17.5°	1434.5	1395.8	1333.0	1311.9	1299.9
20°	1402.8	1358.6	1290.8	1273.3	1266.2
22.5°	1367.7	1317.0	1251.7	1236.1	1228.1
25°	1330.5	1274.3	1209.5	1197.4	1187.4
27.5°	1286.8	1229.6	1166.8	1158.2	1151.2
30°	1243.1	1184.4	1124.6	1118.6	1115.5
32.5°	1196.9	1133.1	1080.4	1079.4	1077.9
35°	1144.7	1083.9	1034.7	1041.2	1040.7
37.5°	1093.9	1031.7	991.5	1003.0	1005.5
40°	1038.2	977.4	945.3	964.9	971.9
42.5°	983.4	925.2	902.1	928.7	940.3
45°	928.7	868.9	857.9	895.6	909.1
47.5°	868.9	815.2	816.2	864.4	880.5
50°	809.7	759.4	774.5	830.8	849.3
52.5°	748.4	705.2	736.8	798.1	819.2
55°	688.1	650.4	695.6	766.5	783.5
57.5°	627.8	597.7	658.0	725.8	742.9
60°	571.6	545.5	621.8	683.6	696.7
62.5°	517.8	496.7	586.2	637.4	643.9
65°	459.6	451.0	542.0	585.1	583.6
67.5°	402.3	404.3	496.7	524.9	522.4
70°	347.6	363.6	448.0	459.6	449.0
72.5°	291.3	321.5	391.3	390.3	379.7
75°	236.1	280.8	329.0	314.4	304.4
77.5°	188.4	237.1	261.2	241.1	225.0
80°	138.6	189.9	187.3	164.7	151.7
82.5°	90.9	132.1	116.0	93.4	87.4
85°	52.2	71.8	49.7	36.2	32.1
87.5°	22.1	19.1	12.6	11.6	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)