

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-L835**

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-L835
Description: 8ft RSRK, 500 LUMEN PER FOOT 80CRI 3500K CCT WITH TRILOBE RIBBED LENS
Light Source: -
Ballast/Driver: -

Summary

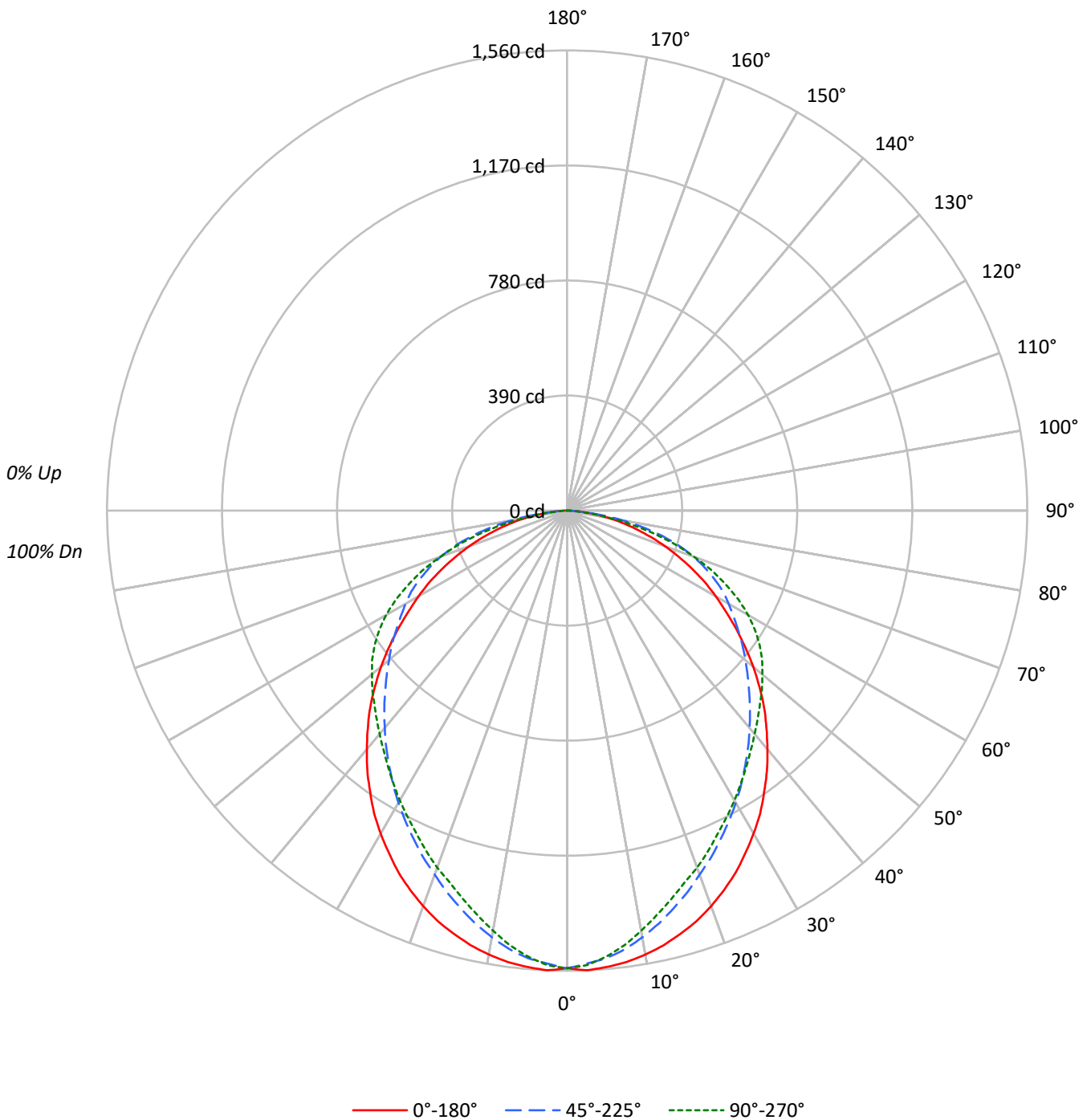
Lumens per Lamp: N/A
Luminaire Lumens: 4059.2 lumens
Efficiency: N/A
Efficacy: 283.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.26
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

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	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°	2088	2088	2088
5°	2098	2057	2050
10°	2088	2007	1976
15°	2069	1944	1899
20°	2043	1880	1844
25°	2009	1826	1793
30°	1965	1777	1763
35°	1913	1729	1739
40°	1855	1689	1737
45°	1798	1661	1760
50°	1724	1649	1809
55°	1642	1660	1870
60°	1565	1702	1907
65°	1488	1755	1890
70°	1391	1793	1797
75°	1248	1740	1609
80°	1093	1477	1196
85°	820	781	505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	3.6
10°-20°	397.9	9.8
20°-30°	578.9	14.3
30°-40°	677.1	16.7
40°-50°	696.0	17.1
50°-60°	647.5	16.0
60°-70°	526.7	13.0
70°-80°	319.0	7.9
80°-90°	71.5	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°	1121.5	27.6
0°-40°	1798.6	44.3
0°-60°	3142.0	77.4
0°-90°	4059.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4059.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1553	1544	1523	1526	1518	147
15°	1485	1454	1396	1375	1363	419
25°	1354	1296	1230	1218	1208	623
35°	1164	1103	1052	1059	1059	729
45°	945	884	873	911	925	727
55°	700	662	708	780	797	626
65°	468	459	551	595	594	463
75°	240	286	335	320	310	257
85°	53	73	51	37	33	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1551.7	1551.7	1551.7	1551.7	1551.7
2.5°	1559.9	1552.7	1537.4	1546.1	1542.5
5°	1553.2	1544.1	1523.1	1526.2	1518.0
7.5°	1543.5	1530.3	1500.1	1494.0	1486.8
10°	1528.2	1508.8	1468.9	1459.2	1446.0
12.5°	1509.3	1484.3	1434.2	1416.8	1404.6
15°	1485.3	1453.6	1395.9	1374.9	1363.2
17.5°	1459.2	1419.9	1356.0	1334.6	1322.3
20°	1427.0	1382.1	1313.1	1295.2	1288.1
22.5°	1391.3	1339.7	1273.3	1257.4	1249.2
25°	1353.5	1296.2	1230.3	1218.1	1207.9
27.5°	1309.0	1250.8	1186.9	1178.2	1171.1
30°	1264.6	1204.8	1144.0	1137.9	1134.8
32.5°	1217.6	1152.7	1099.0	1098.0	1096.5
35°	1164.4	1102.6	1052.5	1059.2	1058.7
37.5°	1112.8	1049.5	1008.6	1020.3	1022.9
40°	1056.1	994.3	961.6	981.5	988.7
42.5°	1000.4	941.1	917.6	944.7	956.5
45°	944.7	883.9	872.7	911.0	924.8
47.5°	883.9	829.2	830.3	879.3	895.7
50°	823.6	772.5	787.9	845.1	864.0
52.5°	761.3	717.4	749.5	811.9	833.3
55°	700.0	661.7	707.6	779.7	797.1
57.5°	638.7	608.0	669.3	738.3	755.7
60°	581.4	554.9	632.5	695.4	708.7
62.5°	526.8	505.3	596.3	648.4	655.0
65°	467.5	458.8	551.3	595.2	593.7
67.5°	409.3	411.3	505.3	533.9	531.4
70°	353.6	369.9	455.8	467.5	456.8
72.5°	296.3	327.0	398.0	397.0	386.3
75°	240.1	285.6	334.7	319.8	309.6
77.5°	191.6	241.2	265.7	245.2	228.9
80°	141.0	193.1	190.6	167.6	154.3
82.5°	92.5	134.4	118.0	95.0	88.9
85°	53.1	73.1	50.6	36.8	32.7
87.5°	22.5	19.4	12.8	11.8	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)