

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: **4RSRK-TB-50-HE-L850**

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: 4RSRK-TB-50-HE-L850
Description: 4ft RSRK, 500 LUMEN PER FOOT 80CRI 5000K CCT WITH TRILOBE RIBBED LENS
Light Source: -
Ballast/Driver: -

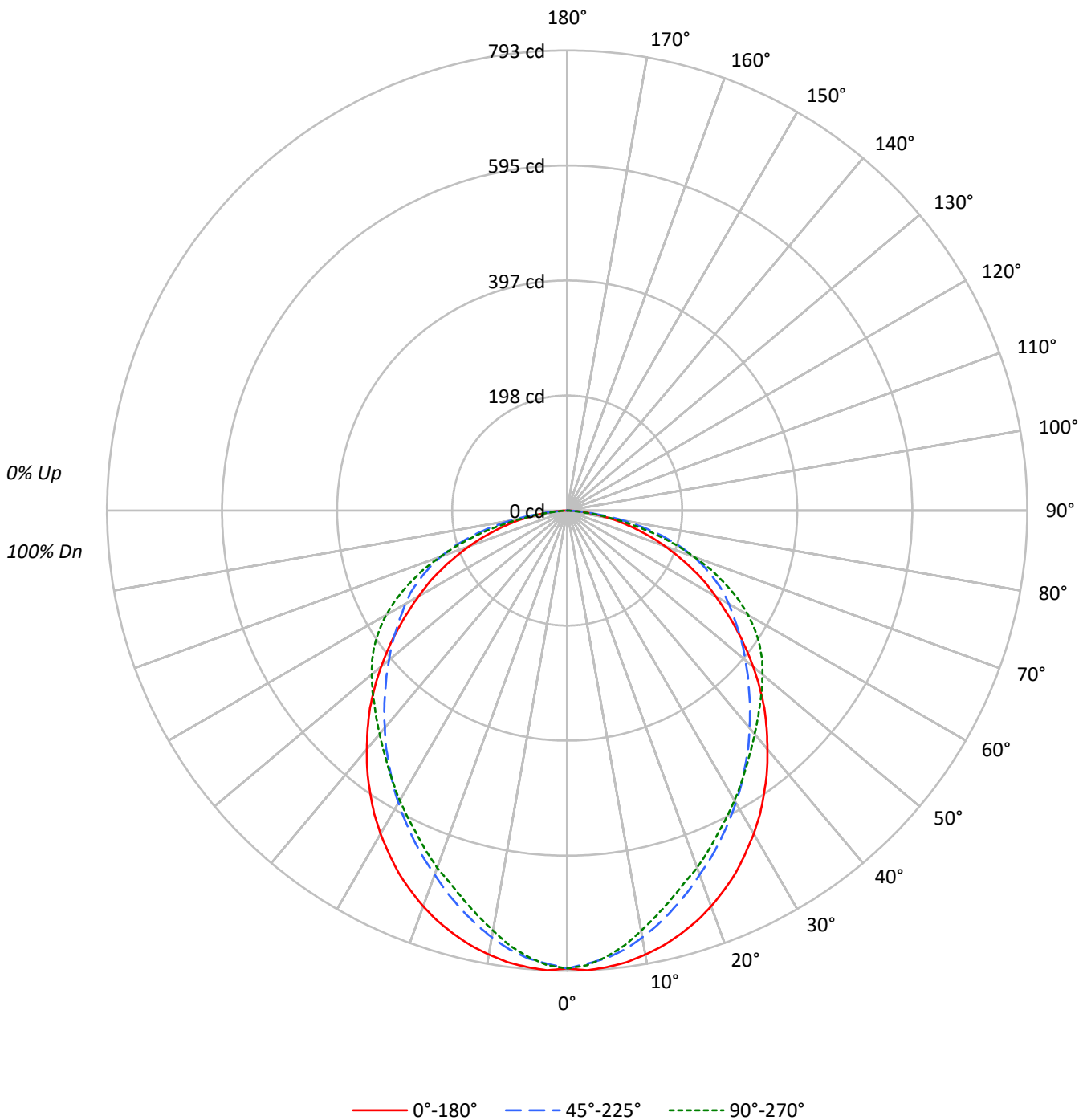
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2064.0 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' 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: P#
CATALOG NUMBER: 4RSRK-TB-50-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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2123	2123	2123
5°	2133	2092	2085
10°	2123	2041	2009
15°	2104	1977	1931
20°	2078	1912	1876
25°	2043	1858	1824
30°	1998	1808	1793
35°	1945	1758	1768
40°	1886	1717	1766
45°	1828	1689	1789
50°	1753	1677	1839
55°	1670	1688	1901
60°	1591	1731	1939
65°	1514	1785	1922
70°	1415	1823	1828
75°	1269	1770	1637
80°	1111	1502	1216
85°	834	794	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	3.6
10°-20°	202.3	9.8
20°-30°	294.4	14.3
30°-40°	344.3	16.7
40°-50°	353.9	17.1
50°-60°	329.2	16.0
60°-70°	267.8	13.0
70°-80°	162.2	7.9
80°-90°	36.3	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°	570.2	27.6
0°-40°	914.5	44.3
0°-60°	1597.6	77.4
0°-90°	2064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	790	785	774	776	772	75
15°	755	739	710	699	693	213
25°	688	659	626	619	614	317
35°	592	561	535	539	538	370
45°	480	450	444	463	470	370
55°	356	336	360	396	405	319
65°	238	233	280	303	302	235
75°	122	145	170	163	157	131
85°	27	37	26	19	17	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	789.0	789.0	789.0	789.0	789.0
2.5°	793.2	789.5	781.7	786.2	784.3
5°	789.8	785.1	774.5	776.0	771.9
7.5°	784.9	778.1	762.8	759.7	756.0
10°	777.1	767.2	746.9	742.0	735.2
12.5°	767.5	754.7	729.3	720.4	714.2
15°	755.2	739.1	709.8	699.1	693.1
17.5°	742.0	722.0	689.5	678.6	672.4
20°	725.6	702.8	667.7	658.6	655.0
22.5°	707.4	681.2	647.4	639.4	635.2
25°	688.2	659.1	625.6	619.4	614.2
27.5°	665.6	636.0	603.5	599.1	595.5
30°	643.0	612.6	581.7	578.6	577.0
32.5°	619.1	586.1	558.8	558.3	557.5
35°	592.1	560.6	535.2	538.6	538.3
37.5°	565.8	533.6	512.8	518.8	520.1
40°	537.0	505.6	488.9	499.1	502.7
42.5°	508.7	478.6	466.6	480.4	486.3
45°	480.4	449.5	443.7	463.2	470.2
47.5°	449.5	421.7	422.2	447.1	455.4
50°	418.8	392.8	400.6	429.7	439.3
52.5°	387.1	364.8	381.1	412.8	423.7
55°	355.9	336.4	359.8	396.5	405.3
57.5°	324.8	309.2	340.3	375.4	384.2
60°	295.7	282.1	321.6	353.6	360.3
62.5°	267.9	256.9	303.2	329.7	333.1
65°	237.7	233.3	280.3	302.7	301.9
67.5°	208.1	209.1	256.9	271.5	270.2
70°	179.8	188.1	231.7	237.7	232.3
72.5°	150.7	166.3	202.4	201.9	196.4
75°	122.1	145.2	170.2	162.6	157.4
77.5°	97.4	122.6	135.1	124.7	116.4
80°	71.7	98.2	96.9	85.2	78.5
82.5°	47.0	68.3	60.0	48.3	45.2
85°	27.0	37.2	25.7	18.7	16.6
87.5°	11.4	9.9	6.5	6.0	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)