

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-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: 4RSRK-TB-50-HE-L830
Description: 4ft RSRK, 500 LUMEN PER FOOT 80CRI 3000K CCT WITH TRILOBE RIBBED LENS
Light Source: -
Ballast/Driver: -

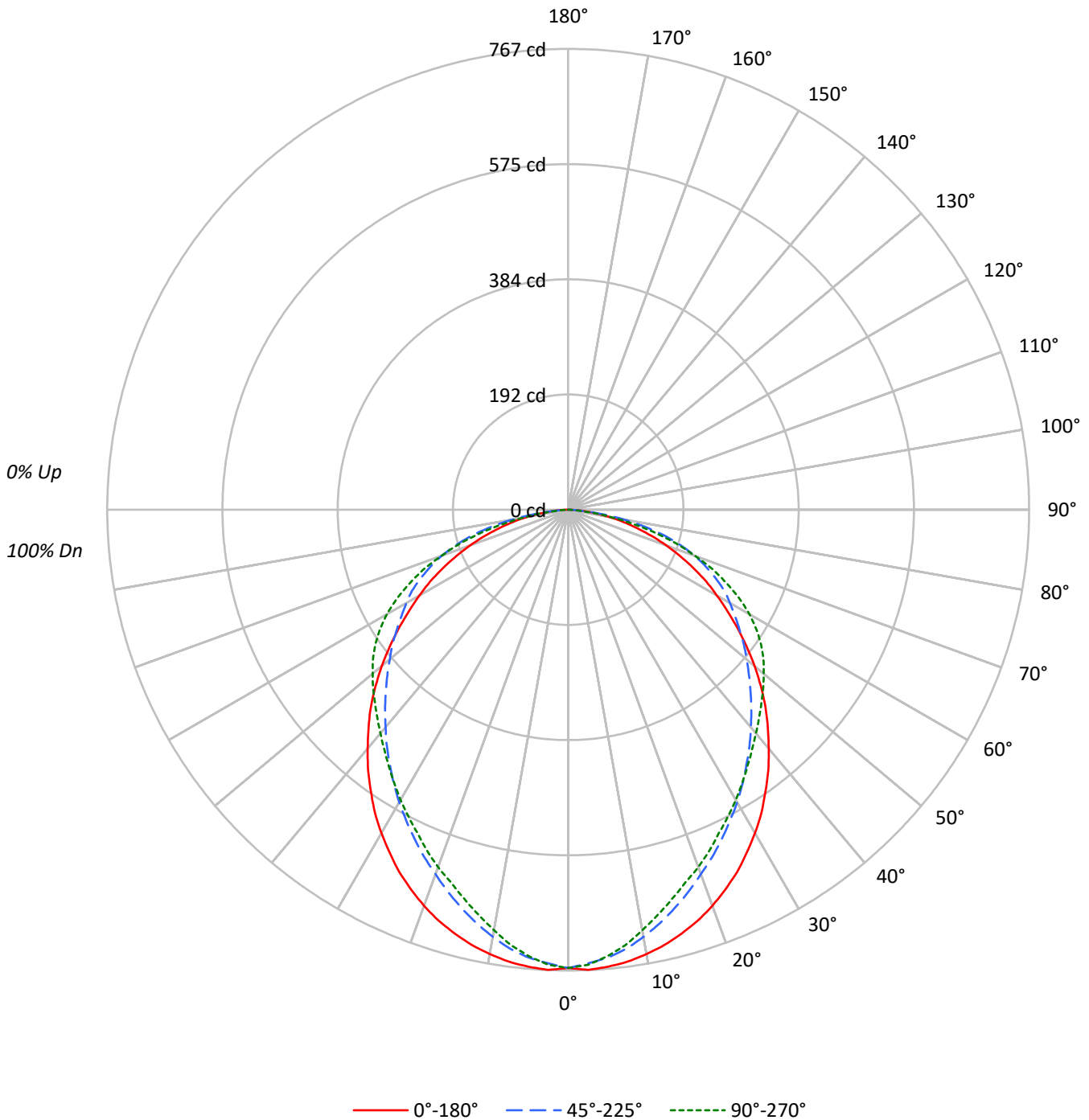
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1995.2 lumens
Efficiency: N/A
Efficacy: 139.5 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

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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	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°	2052	2052	2052
5°	2062	2022	2015
10°	2052	1973	1942
15°	2034	1911	1867
20°	2009	1848	1813
25°	1975	1795	1763
30°	1931	1747	1733
35°	1880	1699	1710
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	1452	1175
85°	806	769	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.6
10°-20°	195.6	9.8
20°-30°	284.5	14.3
30°-40°	332.8	16.7
40°-50°	342.1	17.1
50°-60°	318.3	16.0
60°-70°	258.9	13.0
70°-80°	156.8	7.9
80°-90°	35.1	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°	551.2	27.6
0°-40°	884.0	44.3
0°-60°	1544.4	77.4
0°-90°	1995.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1995.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	764	759	749	750	746	72
15°	730	714	686	676	670	206
25°	665	637	605	599	594	306
35°	572	542	517	521	520	358
45°	464	434	429	448	455	357
55°	344	325	348	383	392	308
65°	230	226	271	293	292	228
75°	118	140	164	157	152	126
85°	26	36	25	18	16	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.7	762.7	762.7	762.7	762.7
2.5°	766.7	763.2	755.7	759.9	758.2
5°	763.5	758.9	748.6	750.1	746.1
7.5°	758.7	752.2	737.3	734.3	730.8
10°	751.1	741.6	722.0	717.2	710.7
12.5°	741.9	729.6	704.9	696.4	690.4
15°	730.1	714.5	686.1	675.8	670.0
17.5°	717.2	697.9	666.5	656.0	649.9
20°	701.4	679.3	645.4	636.6	633.1
22.5°	683.8	658.5	625.8	618.0	614.0
25°	665.3	637.1	604.7	598.7	593.7
27.5°	643.4	614.8	583.4	579.1	575.6
30°	621.6	592.2	562.3	559.3	557.8
32.5°	598.5	566.6	540.2	539.7	538.9
35°	572.3	542.0	517.3	520.6	520.4
37.5°	547.0	515.8	495.7	501.5	502.8
40°	519.1	488.7	472.6	482.4	485.9
42.5°	491.7	462.6	451.0	464.4	470.1
45°	464.4	434.5	428.9	447.8	454.6
47.5°	434.5	407.6	408.1	432.2	440.2
50°	404.8	379.7	387.3	415.4	424.7
52.5°	374.2	352.6	368.4	399.1	409.6
55°	344.1	325.2	347.8	383.2	391.8
57.5°	313.9	298.9	329.0	362.9	371.4
60°	285.8	272.7	310.9	341.8	348.3
62.5°	258.9	248.4	293.1	318.7	322.0
65°	229.8	225.5	271.0	292.6	291.8
67.5°	201.2	202.2	248.4	262.4	261.2
70°	173.8	181.8	224.0	229.8	224.5
72.5°	145.7	160.7	195.6	195.1	189.9
75°	118.0	140.4	164.5	157.2	152.2
77.5°	94.2	118.5	130.6	120.5	112.5
80°	69.3	94.9	93.7	82.4	75.8
82.5°	45.5	66.0	58.0	46.7	43.7
85°	26.1	35.9	24.9	18.1	16.1
87.5°	11.0	9.5	6.3	5.8	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)