

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-TS-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 (G3-1810-975-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4RSRK-TS-50-HE-L830
Description: 4ft RSRK, 500 LUMEN PER FOOT 80CRI 3000K CCT WITH TRILOBE SMOOTH LENS
Light Source: -
Ballast/Driver: -

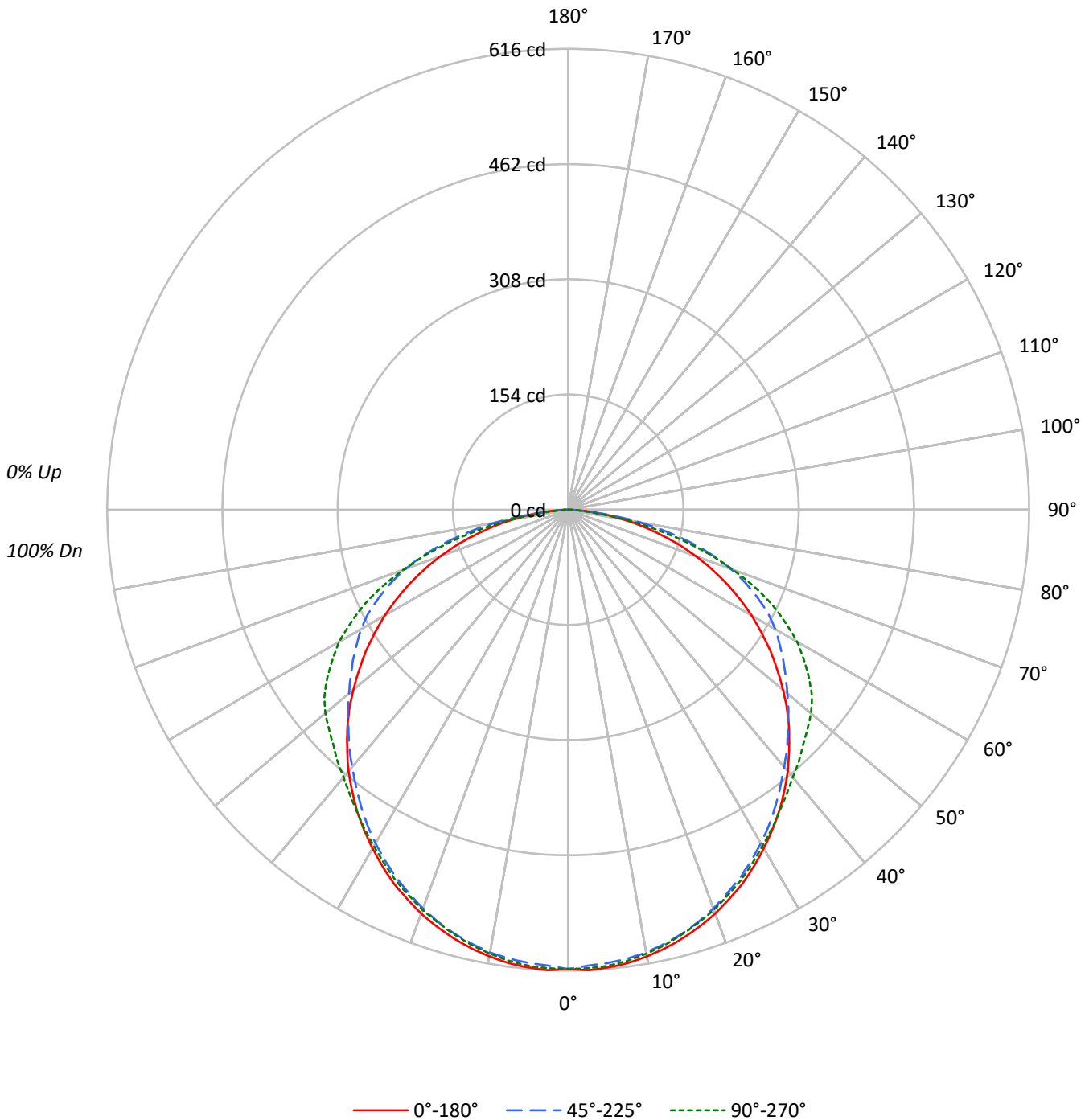
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1889.9 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83					83			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68					68			
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56					56			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36					36			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28					28			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25					25			
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1652	1652	1652
5°	1659	1643	1653
10°	1656	1642	1647
15°	1651	1634	1637
20°	1645	1624	1630
25°	1637	1612	1622
30°	1624	1600	1613
35°	1615	1587	1617
40°	1604	1577	1640
45°	1589	1580	1690
50°	1569	1601	1773
55°	1549	1647	1844
60°	1522	1721	1901
65°	1484	1779	1917
70°	1427	1818	1842
75°	1315	1759	1646
80°	1165	1514	1261
85°	837	766	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	3.1
10°-20°	166.4	8.8
20°-30°	251.9	13.3
30°-40°	305.5	16.2
40°-50°	326.8	17.3
50°-60°	316.8	16.8
60°-70°	265.3	14.0
70°-80°	163.0	8.6
80°-90°	36.0	1.9
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
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0°-30°	476.4	25.2
0°-40°	781.9	41.4
0°-60°	1425.5	75.4
0°-90°	1889.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1889.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	614	613	608	612	612	58
15°	593	591	587	589	588	167
25°	551	548	543	547	546	254
35°	492	485	483	491	492	307
45°	418	409	415	436	444	322
55°	330	321	351	386	393	295
65°	233	232	279	298	301	230
75°	126	148	169	162	158	135
85°	27	36	25	17	16	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	613.9	613.9	613.9	613.9	613.9
2.5°	616.2	614.5	609.9	613.9	613.5
5°	614.2	612.9	608.2	612.2	611.9
7.5°	611.2	609.9	605.2	609.2	608.2
10°	606.2	605.2	600.9	603.9	602.6
12.5°	600.3	599.3	594.3	597.6	596.0
15°	592.7	591.3	586.7	589.3	587.7
17.5°	584.1	582.4	577.8	580.4	578.8
20°	574.4	572.1	567.2	570.8	569.2
22.5°	562.9	561.2	555.2	559.2	557.6
25°	551.3	548.0	543.0	546.6	546.3
27.5°	537.4	534.1	529.1	533.4	532.7
30°	522.8	519.2	514.9	519.2	519.2
32.5°	507.6	502.9	499.6	504.6	506.2
35°	491.7	485.4	483.1	491.3	492.3
37.5°	474.1	467.8	465.9	476.8	479.4
40°	456.6	448.6	449.0	462.9	466.8
42.5°	437.0	429.1	432.7	449.0	456.2
45°	417.5	408.6	415.2	436.4	444.0
47.5°	397.0	388.4	399.3	424.1	433.7
50°	374.8	366.2	382.4	412.5	423.5
52.5°	352.3	343.3	366.2	400.6	410.6
55°	330.1	321.2	351.0	385.7	393.0
57.5°	306.3	298.6	335.1	366.2	373.5
60°	282.8	276.1	319.8	346.3	353.3
62.5°	258.6	253.6	301.3	323.5	327.5
65°	233.1	231.8	279.4	298.3	301.0
67.5°	207.6	210.9	256.9	269.2	269.5
70°	181.4	190.4	231.1	236.4	234.1
72.5°	155.0	170.5	202.6	200.0	198.0
75°	126.5	147.7	169.2	161.9	158.3
77.5°	100.7	124.5	133.4	123.2	117.5
80°	75.2	98.3	97.7	84.4	81.4
82.5°	50.7	68.5	58.6	47.7	41.7
85°	27.1	36.4	24.8	17.2	16.2
87.5°	10.3	8.6	6.6	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)