

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-100-HE-L840**

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-100-HE-L840
Description: 4ft RSRK, 1000 LUMEN PER FOOT 80CRI 4000K CCT WITH TRILOBE RIBBED LENS
Light Source: -
Ballast/Driver: -

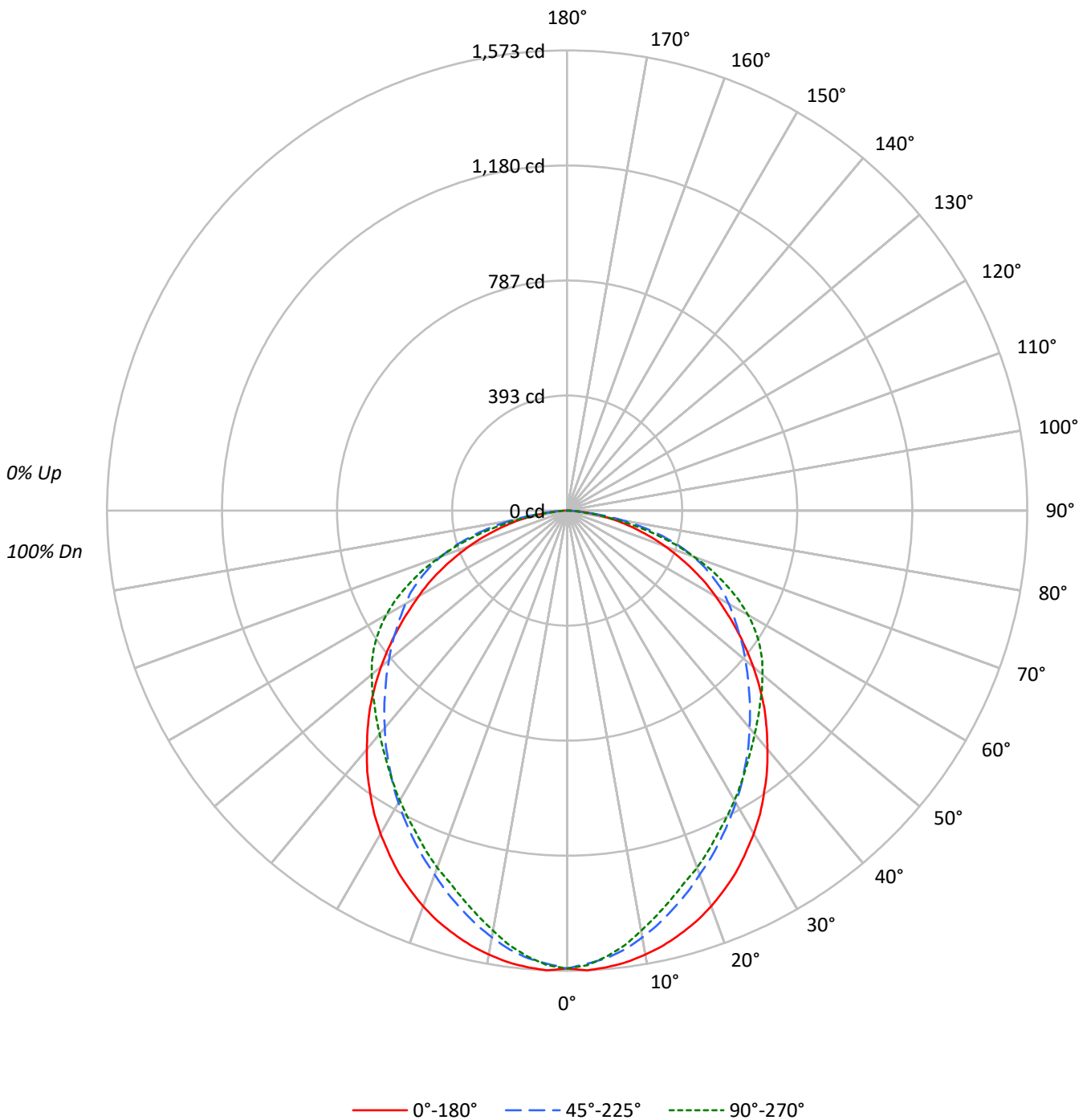
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4094.0 lumens
Efficiency: N/A
Efficacy: 142.2 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): 28.8
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°	4211	4211	4211
5°	4232	4150	4136
10°	4212	4048	3985
15°	4173	3922	3830
20°	4122	3793	3720
25°	4053	3684	3617
30°	3963	3585	3556
35°	3858	3487	3507
40°	3742	3407	3503
45°	3626	3350	3550
50°	3478	3327	3648
55°	3312	3348	3772
60°	3156	3434	3847
65°	3002	3540	3813
70°	2806	3617	3625
75°	2518	3509	3247
80°	2204	2978	2411
85°	1655	1575	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	3.6
10°-20°	401.3	9.8
20°-30°	583.9	14.3
30°-40°	682.9	16.7
40°-50°	701.9	17.1
50°-60°	653.0	16.0
60°-70°	531.2	13.0
70°-80°	321.7	7.9
80°-90°	72.1	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°	1131.1	27.6
0°-40°	1814.0	44.3
0°-60°	3169.0	77.4
0°-90°	4094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1567	1557	1536	1539	1531	149
15°	1498	1466	1408	1387	1375	422
25°	1365	1307	1241	1228	1218	628
35°	1174	1112	1062	1068	1068	735
45°	953	892	880	919	933	733
55°	706	667	714	786	804	632
65°	472	463	556	600	599	467
75°	242	288	338	323	312	259
85°	54	74	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°	1565.0	1565.0	1565.0	1565.0	1565.0
2.5°	1573.3	1566.1	1550.6	1559.4	1555.8
5°	1566.6	1557.3	1536.2	1539.3	1531.0
7.5°	1556.8	1543.4	1513.0	1506.8	1499.6
10°	1541.3	1521.7	1481.5	1471.8	1458.4
12.5°	1522.3	1497.0	1446.5	1429.0	1416.6
15°	1498.0	1466.1	1407.9	1386.7	1374.9
17.5°	1471.8	1432.1	1367.7	1346.0	1333.7
20°	1439.3	1393.9	1324.4	1306.3	1299.1
22.5°	1403.2	1351.2	1284.2	1268.2	1260.0
25°	1365.1	1307.4	1240.9	1228.5	1218.2
27.5°	1320.3	1261.5	1197.1	1188.3	1181.1
30°	1275.4	1215.1	1153.8	1147.6	1144.5
32.5°	1228.0	1162.6	1108.5	1107.4	1105.9
35°	1174.4	1112.1	1061.6	1068.3	1067.7
37.5°	1122.4	1058.5	1017.2	1029.1	1031.7
40°	1065.2	1002.8	969.8	989.9	997.1
42.5°	1009.0	949.2	925.5	952.8	964.7
45°	952.8	891.5	880.2	918.8	932.7
47.5°	891.5	836.4	837.4	886.9	903.4
50°	830.7	779.2	794.6	852.3	871.4
52.5°	767.8	723.5	756.0	818.8	840.5
55°	706.0	667.3	713.7	786.4	803.9
57.5°	644.2	613.2	675.1	744.6	762.2
60°	586.4	559.6	638.0	701.4	714.8
62.5°	531.3	509.7	601.4	653.9	660.6
65°	471.5	462.8	556.0	600.3	598.8
67.5°	412.8	414.8	509.7	538.5	535.9
70°	356.6	373.1	459.7	471.5	460.7
72.5°	298.9	329.8	401.4	400.4	389.6
75°	242.2	288.1	337.5	322.6	312.3
77.5°	193.2	243.2	268.0	247.4	230.9
80°	142.2	194.8	192.2	169.0	155.6
82.5°	93.3	135.5	119.0	95.8	89.7
85°	53.6	73.7	51.0	37.1	33.0
87.5°	22.7	19.6	12.9	11.9	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)