

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-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: 4RSRK-TB-100-HE-L835
Description: 4ft RSRK, 1000 LUMEN PER FOOT 80CRI 3500K CCT WITH TRILOBE RIBBED LENS
Light Source: -
Ballast/Driver: -

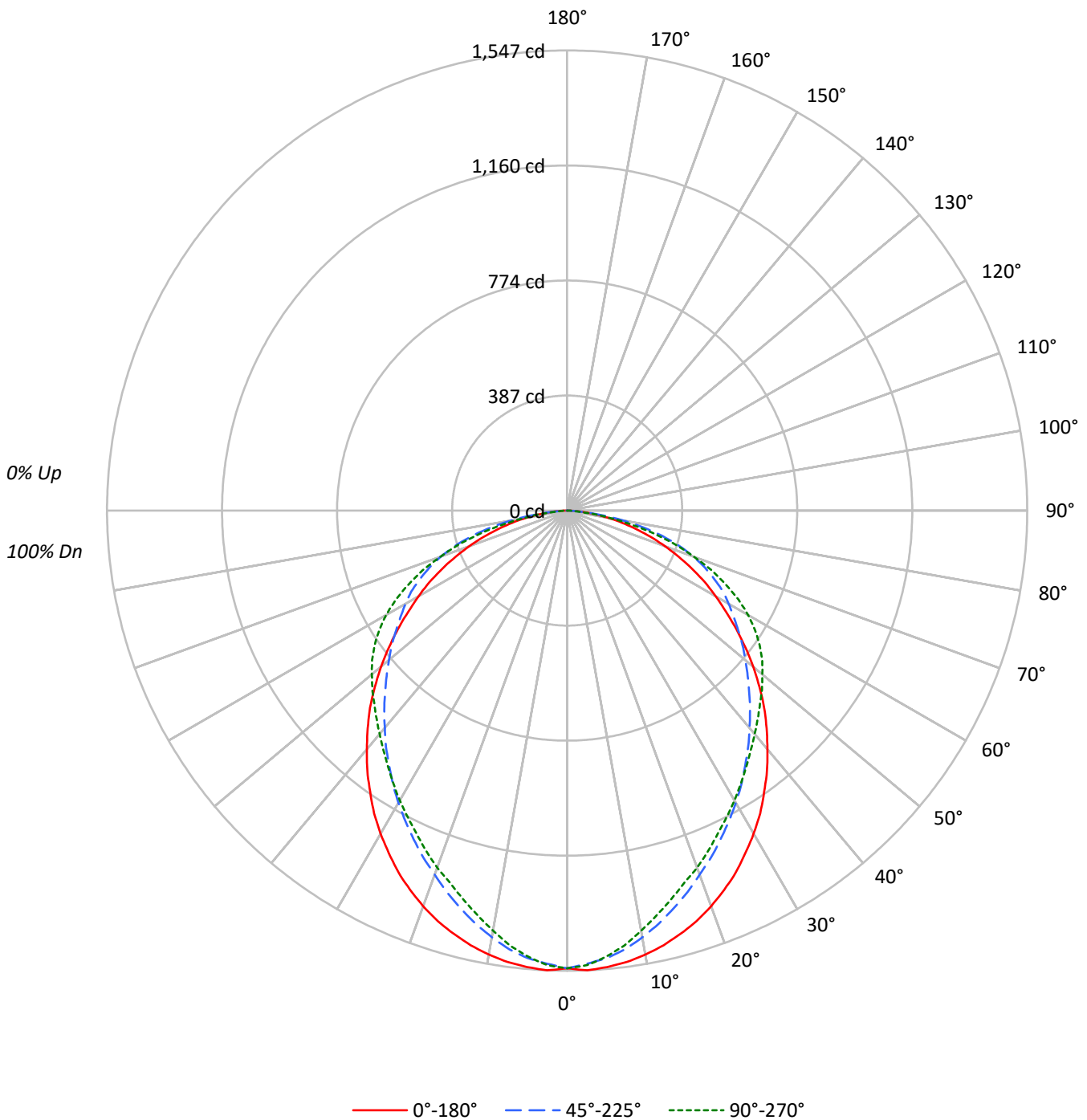
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025.8 lumens
Efficiency: N/A
Efficacy: 139.8 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	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°	4141	4141	4141
5°	4161	4081	4067
10°	4141	3981	3918
15°	4104	3857	3767
20°	4053	3729	3658
25°	3986	3623	3557
30°	3897	3526	3497
35°	3794	3429	3449
40°	3679	3350	3444
45°	3565	3294	3491
50°	3419	3271	3587
55°	3257	3293	3709
60°	3104	3376	3782
65°	2953	3482	3749
70°	2759	3556	3564
75°	2477	3451	3193
80°	2168	2929	2371
85°	1627	1550	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.6
10°-20°	394.6	9.8
20°-30°	574.1	14.3
30°-40°	671.5	16.7
40°-50°	690.2	17.1
50°-60°	642.2	16.0
60°-70°	522.3	13.0
70°-80°	316.4	7.9
80°-90°	70.9	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°	1112.2	27.6
0°-40°	1783.7	44.3
0°-60°	3116.1	77.4
0°-90°	4025.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1540	1531	1511	1514	1506	146
15°	1473	1442	1384	1364	1352	415
25°	1342	1286	1220	1208	1198	617
35°	1155	1094	1044	1050	1050	723
45°	937	877	866	904	917	721
55°	694	656	702	773	790	621
65°	464	455	547	590	589	459
75°	238	283	332	317	307	255
85°	53	72	50	36	32	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.9	1538.9	1538.9	1538.9	1538.9
2.5°	1547.0	1539.9	1524.7	1533.4	1529.8
5°	1540.5	1531.3	1510.6	1513.6	1505.5
7.5°	1530.8	1517.7	1487.8	1481.7	1474.6
10°	1515.6	1496.4	1456.8	1447.2	1434.0
12.5°	1496.9	1472.0	1422.4	1405.2	1393.0
15°	1473.1	1441.6	1384.4	1363.6	1352.0
17.5°	1447.2	1408.2	1344.9	1323.6	1311.4
20°	1415.3	1370.7	1302.3	1284.6	1277.5
22.5°	1379.8	1328.6	1262.8	1247.1	1239.0
25°	1342.3	1285.6	1220.2	1208.0	1197.9
27.5°	1298.2	1240.5	1177.1	1168.5	1161.4
30°	1254.2	1194.9	1134.6	1128.5	1125.4
32.5°	1207.5	1143.2	1090.0	1089.0	1087.4
35°	1154.8	1093.5	1043.9	1050.4	1049.9
37.5°	1103.7	1040.8	1000.3	1011.9	1014.5
40°	1047.4	986.1	953.7	973.4	980.5
42.5°	992.2	933.4	910.1	936.9	948.6
45°	936.9	876.6	865.5	903.5	917.2
47.5°	876.6	822.4	823.4	872.1	888.3
50°	816.8	766.2	781.4	838.1	856.9
52.5°	755.0	711.4	743.4	805.2	826.5
55°	694.2	656.2	701.8	773.3	790.5
57.5°	633.4	603.0	663.8	732.2	749.5
60°	576.7	550.3	627.3	689.7	702.8
62.5°	522.4	501.2	591.4	643.0	649.6
65°	463.7	455.0	546.8	590.3	588.8
67.5°	405.9	407.9	501.2	529.5	527.0
70°	350.7	366.9	452.0	463.7	453.0
72.5°	293.9	324.3	394.7	393.7	383.1
75°	238.2	283.3	331.9	317.2	307.1
77.5°	190.0	239.2	263.5	243.2	227.0
80°	139.9	191.5	189.0	166.2	153.0
82.5°	91.7	133.3	117.1	94.3	88.2
85°	52.7	72.5	50.2	36.5	32.4
87.5°	22.3	19.3	12.7	11.7	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)