

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: **8RSRK-TS-50-HE-L830**

Issue Date: 3/3/2020



**Test Information**

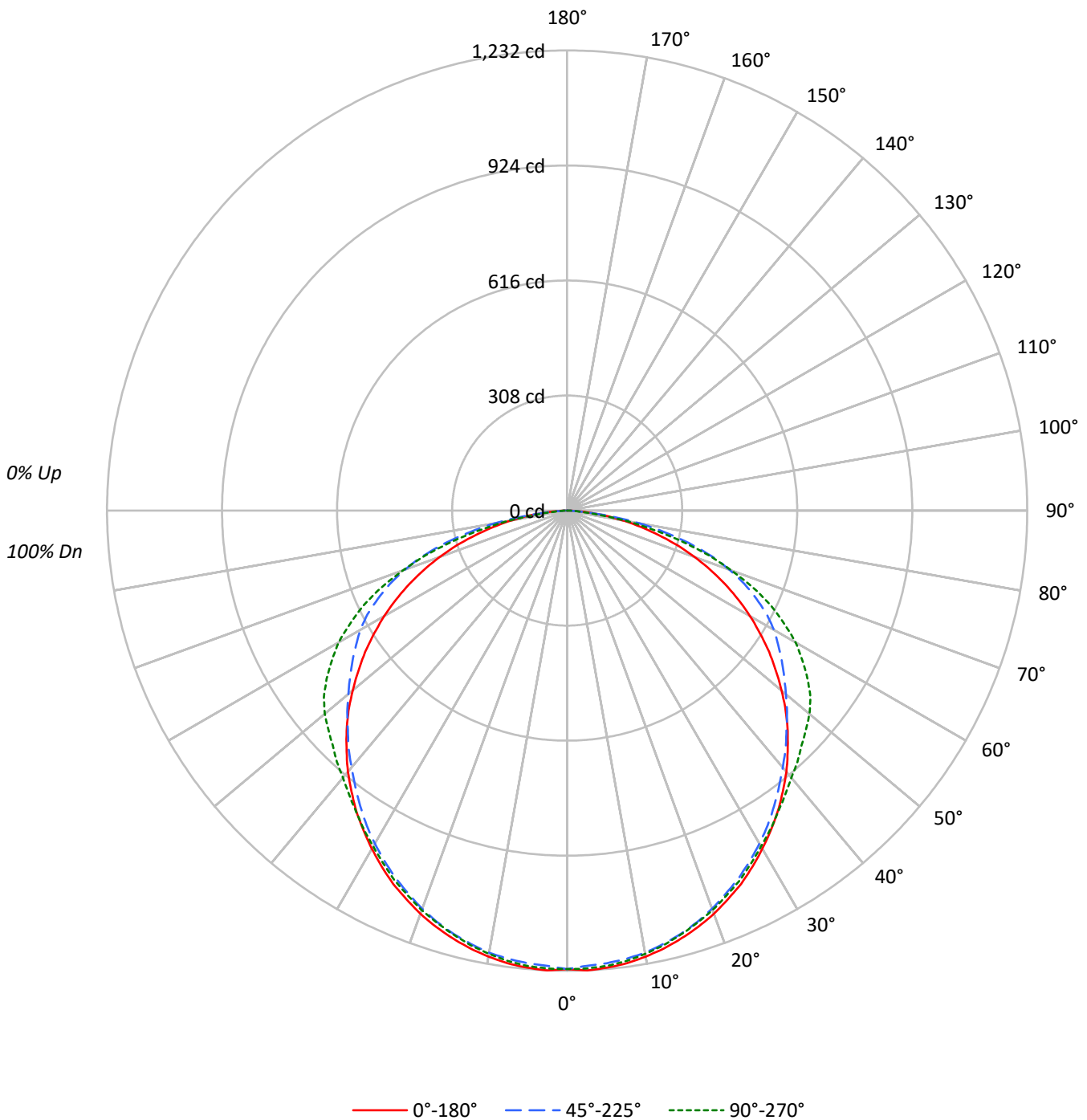
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8RSRK-TS-50-HE-L830  
Description: 8ft RSRK, 500 LUMEN PER FOOT 80CRI 3000K CCT WITH TRILOBE SMOOTH LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3779.8 lumens  
Efficiency: N/A  
Efficacy: 264.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 8' 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1652	1652	1652
5°	1659	1643	1653
10°	1657	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	1916
70°	1428	1818	1842
75°	1315	1759	1645
80°	1165	1513	1262
85°	838	767	500



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.3	3.1
10°-20°	332.7	8.8
20°-30°	503.8	13.3
30°-40°	611.1	16.2
40°-50°	653.7	17.3
50°-60°	633.6	16.8
60°-70°	530.6	14.0
70°-80°	326.1	8.6
80°-90°	72.0	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
0°-30°	952.8	25.2
0°-40°	1563.8	41.4
0°-60°	2851.1	75.4
0°-90°	3779.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3779.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1228	1226	1216	1224	1224	117
15°	1185	1183	1173	1179	1175	335
25°	1102	1096	1086	1093	1093	508
35°	983	971	966	983	985	615
45°	835	817	830	873	888	644
55°	660	642	702	772	786	589
65°	466	464	559	597	602	461
75°	253	295	338	324	316	269
85°	54	73	50	34	32	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1227.7	1227.7	1227.7	1227.7	1227.7
2.5°	1232.3	1229.0	1219.8	1227.7	1227.0
5°	1228.4	1225.7	1216.4	1224.4	1223.7
7.5°	1222.4	1219.8	1210.5	1218.4	1216.4
10°	1212.5	1210.5	1201.9	1207.8	1205.2
12.5°	1200.6	1198.6	1188.6	1195.3	1191.9
15°	1185.3	1182.7	1173.4	1178.7	1175.4
17.5°	1168.1	1164.8	1155.5	1160.8	1157.5
20°	1148.9	1144.3	1134.3	1141.6	1138.3
22.5°	1125.7	1122.4	1110.5	1118.4	1115.1
25°	1102.5	1095.9	1086.0	1093.3	1092.6
27.5°	1074.7	1068.1	1058.2	1066.8	1065.5
30°	1045.6	1038.3	1029.7	1038.3	1038.3
32.5°	1015.1	1005.9	999.2	1009.2	1012.5
35°	983.4	970.8	966.1	982.7	984.7
37.5°	948.3	935.7	931.7	953.6	958.9
40°	913.2	897.3	897.9	925.7	933.7
42.5°	874.1	858.2	865.5	897.9	912.5
45°	835.0	817.1	830.4	872.8	888.0
47.5°	794.0	776.7	798.6	848.3	867.5
50°	749.6	732.4	764.8	825.1	846.9
52.5°	704.6	686.7	732.4	801.3	821.1
55°	660.2	642.3	701.9	771.5	786.0
57.5°	612.5	597.3	670.1	732.4	747.0
60°	565.5	552.3	639.7	692.7	706.6
62.5°	517.2	507.2	602.6	647.0	654.9
65°	466.2	463.5	558.9	596.6	601.9
67.5°	415.2	421.8	513.9	538.4	539.0
70°	362.9	380.8	462.2	472.8	468.2
72.5°	309.9	341.0	405.3	400.0	396.0
75°	253.0	295.3	338.4	323.8	316.5
77.5°	201.3	249.0	266.9	246.3	235.1
80°	150.3	196.7	195.3	168.9	162.9
82.5°	101.3	137.1	117.2	95.4	83.4
85°	54.3	72.8	49.7	34.4	32.4
87.5°	20.5	17.2	13.2	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)