

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: P183820

Luminaire Tested: **24SR-LD2-39-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32665)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-39-S-UNV-L850-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4390.8 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.51  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

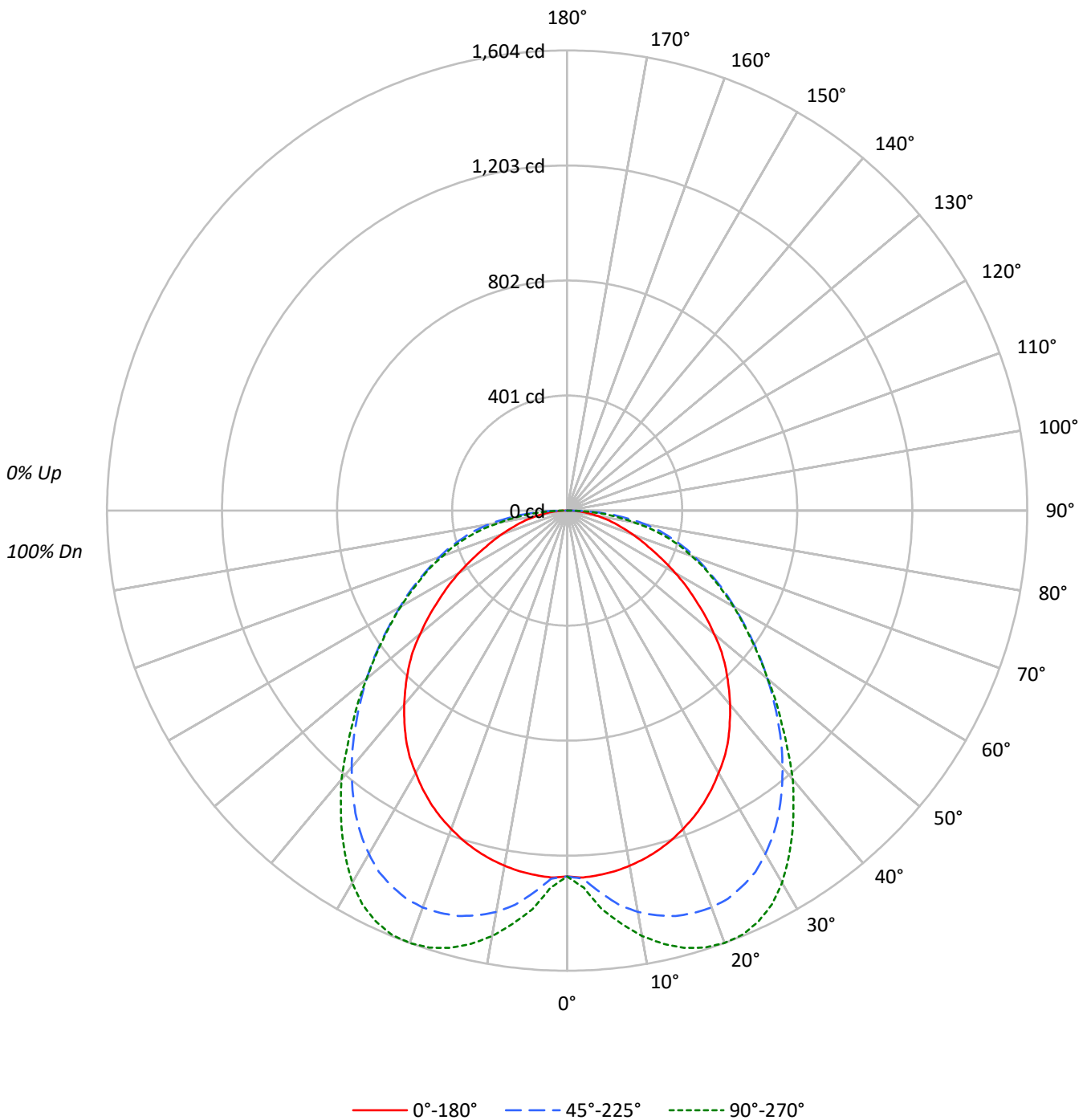
Input Watts (W): 31.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	52	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

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

	0°	45°	90°
0°	1716	1716	1716
5°	1722	1806	1884
10°	1718	1941	2057
15°	1708	2038	2198
20°	1691	2108	2296
25°	1671	2146	2344
30°	1641	2147	2327
35°	1608	2113	2249
40°	1552	2052	2149
45°	1490	1978	2017
50°	1399	1909	1909
55°	1287	1849	1837
60°	1172	1813	1802
65°	1042	1812	1788
70°	958	1865	1809
75°	891	1975	1875
80°	838	2156	1826
85°	815	2326	1910



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.9	3.0
10°-20°	408.0	9.3
20°-30°	649.8	14.8
30°-40°	774.9	17.6
40°-50°	763.4	17.4
50°-60°	659.3	15.0
60°-70°	514.5	11.7
70°-80°	352.6	8.0
80°-90°	138.4	3.2
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°	1187.7	27.1
0°-40°	1962.7	44.7
0°-60°	3385.3	77.1
0°-90°	4390.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4390.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1275	1298	1337	1387	1395	121
15°	1226	1356	1463	1555	1578	346
25°	1126	1304	1445	1555	1579	518
35°	979	1145	1287	1360	1369	610
45°	783	926	1039	1069	1060	602
55°	549	696	788	791	783	492
65°	327	490	569	567	562	329
75°	171	332	380	364	361	182
85°	53	160	151	129	124	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1275.2	1275.2	1275.2	1275.2	1275.2
2.5°	1280.3	1281.6	1284.2	1309.9	1315.1
5°	1275.2	1298.3	1337.0	1387.2	1394.9
7.5°	1268.7	1320.2	1385.9	1440.0	1452.9
10°	1257.1	1342.1	1420.7	1489.0	1505.7
12.5°	1243.0	1353.7	1445.2	1525.0	1546.9
15°	1226.2	1356.3	1463.2	1554.7	1577.8
17.5°	1205.6	1352.4	1470.9	1571.4	1597.2
20°	1181.1	1342.1	1472.2	1577.8	1603.6
22.5°	1155.4	1326.7	1464.5	1572.7	1599.7
25°	1125.7	1303.5	1445.2	1554.7	1579.1
27.5°	1092.3	1271.3	1420.7	1523.7	1546.9
30°	1056.2	1233.9	1382.1	1478.7	1498.0
32.5°	1020.1	1192.7	1338.3	1424.6	1436.2
35°	978.9	1145.1	1286.7	1360.2	1369.2
37.5°	931.2	1097.4	1228.8	1293.2	1295.8
40°	883.6	1039.4	1168.2	1215.9	1223.6
42.5°	833.4	982.8	1105.1	1145.1	1139.9
45°	783.1	926.1	1039.4	1069.1	1060.1
47.5°	730.3	868.1	975.0	994.4	987.9
50°	668.5	810.2	911.9	922.2	911.9
52.5°	609.2	754.8	850.1	855.3	846.2
55°	548.7	695.5	788.3	790.9	783.1
57.5°	493.3	640.2	729.0	729.0	725.2
60°	435.4	584.8	673.6	671.1	669.8
62.5°	380.0	535.8	622.1	618.3	614.4
65°	327.2	489.5	569.3	566.7	561.6
67.5°	283.4	445.7	520.4	516.5	513.9
70°	243.4	407.0	474.0	463.7	459.8
72.5°	204.8	368.4	428.9	413.5	414.7
75°	171.3	332.3	380.0	364.5	360.6
77.5°	137.8	295.0	332.3	307.8	302.7
80°	108.2	255.0	278.2	247.3	235.7
82.5°	79.9	211.2	216.4	186.8	179.0
85°	52.8	159.7	150.7	128.8	123.7
87.5°	28.3	94.0	81.1	65.7	61.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)