

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: P183818

Luminaire Tested: **24SR-LD2-39-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183818  
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-L835-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3955.7 lumens  
Efficiency: N/A  
Efficacy: 124.0 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

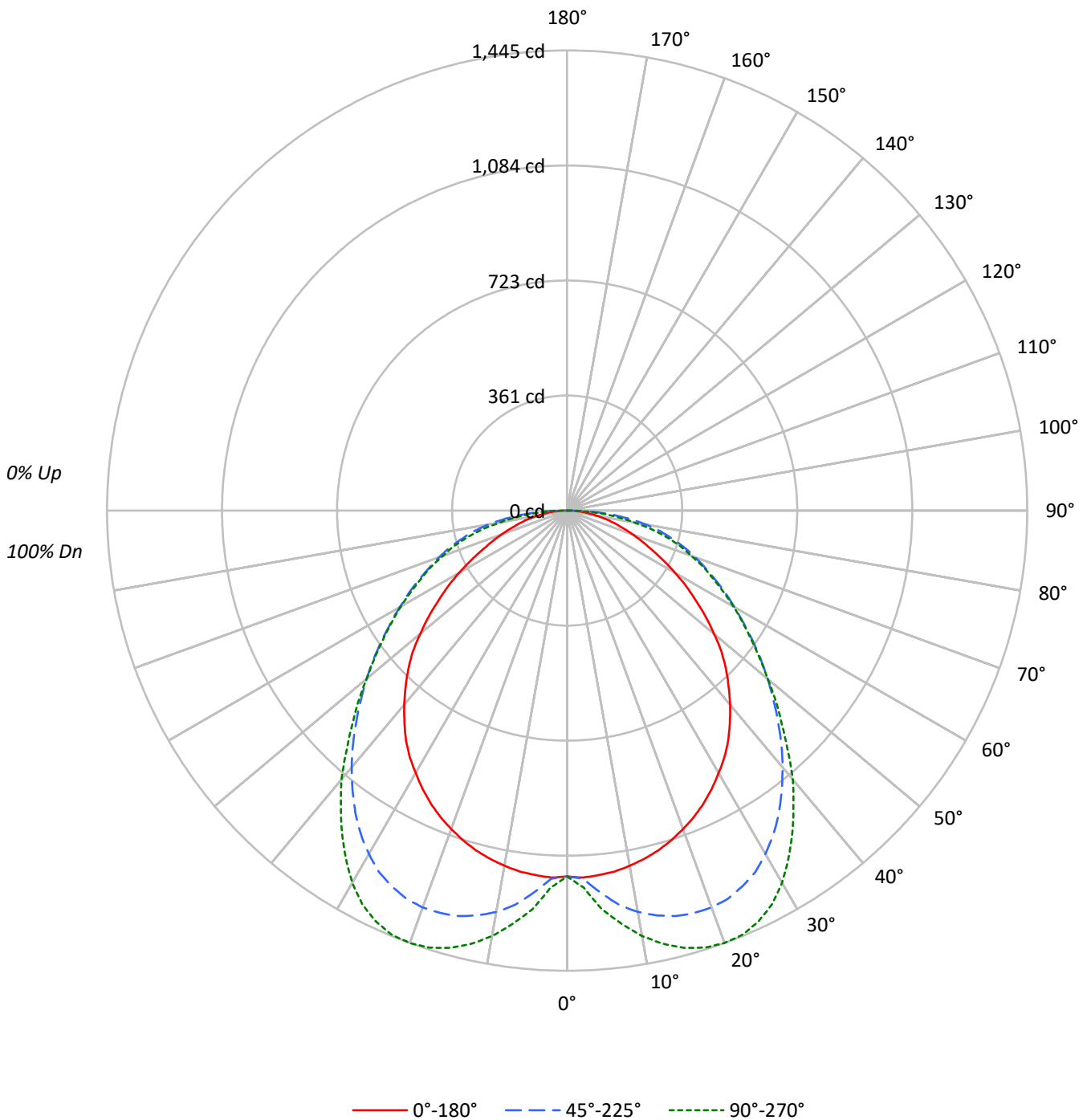
Input Watts (W): 31.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1546	1546	1546
5°	1552	1627	1697
10°	1547	1749	1853
15°	1539	1836	1980
20°	1524	1899	2069
25°	1506	1933	2112
30°	1478	1934	2097
35°	1449	1904	2026
40°	1398	1849	1936
45°	1342	1782	1817
50°	1261	1720	1720
55°	1160	1666	1655
60°	1055	1633	1624
65°	938	1633	1611
70°	863	1680	1630
75°	802	1779	1689
80°	755	1942	1646
85°	735	2096	1720



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.0	3.0
10°-20°	367.6	9.3
20°-30°	585.4	14.8
30°-40°	698.1	17.6
40°-50°	687.7	17.4
50°-60°	594.0	15.0
60°-70°	463.5	11.7
70°-80°	317.6	8.0
80°-90°	124.7	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°	1070.0	27.1
0°-40°	1768.2	44.7
0°-60°	3049.8	77.1
0°-90°	3955.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3955.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1149	1170	1204	1250	1257	109
15°	1105	1222	1318	1401	1422	311
25°	1014	1174	1302	1401	1423	467
35°	882	1032	1159	1225	1234	550
45°	706	834	936	963	955	543
55°	494	627	710	712	706	443
65°	295	441	513	511	506	296
75°	154	299	342	328	325	164
85°	48	144	136	116	111	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1148.8	1148.8	1148.8	1148.8	1148.8
2.5°	1153.4	1154.6	1156.9	1180.1	1184.8
5°	1148.8	1169.7	1204.5	1249.7	1256.7
7.5°	1143.0	1189.4	1248.6	1297.3	1308.9
10°	1132.5	1209.1	1279.9	1341.4	1356.5
12.5°	1119.8	1219.6	1302.0	1373.9	1393.6
15°	1104.7	1221.9	1318.2	1400.6	1421.5
17.5°	1086.1	1218.4	1325.2	1415.7	1438.9
20°	1064.1	1209.1	1326.3	1421.5	1444.7
22.5°	1040.9	1195.2	1319.4	1416.8	1441.2
25°	1014.2	1174.3	1302.0	1400.6	1422.6
27.5°	984.0	1145.3	1279.9	1372.7	1393.6
30°	951.5	1111.7	1245.1	1332.1	1349.5
32.5°	919.0	1074.5	1205.6	1283.4	1293.8
35°	881.9	1031.6	1159.2	1225.4	1233.5
37.5°	839.0	988.7	1107.0	1165.0	1167.4
40°	796.0	936.4	1052.5	1095.4	1102.4
42.5°	750.8	885.4	995.6	1031.6	1026.9
45°	705.5	834.3	936.4	963.1	955.0
47.5°	657.9	782.1	878.4	895.8	890.0
50°	602.2	729.9	821.6	830.8	821.6
52.5°	548.9	680.0	765.9	770.5	762.4
55°	494.3	626.6	710.2	712.5	705.5
57.5°	444.4	576.7	656.8	656.8	653.3
60°	392.2	526.8	606.9	604.6	603.4
62.5°	342.3	482.7	560.5	557.0	553.5
65°	294.7	440.9	512.9	510.6	505.9
67.5°	255.3	401.5	468.8	465.3	463.0
70°	219.3	366.7	427.0	417.7	414.3
72.5°	184.5	331.9	386.4	372.5	373.6
75°	154.3	299.4	342.3	328.4	324.9
77.5°	124.2	265.7	299.4	277.3	272.7
80°	97.5	229.8	250.6	222.8	212.4
82.5°	71.9	190.3	194.9	168.3	161.3
85°	47.6	143.9	135.8	116.0	111.4
87.5°	25.5	84.7	73.1	59.2	55.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)