

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: P183770

Luminaire Tested: **24SR-LD2-29-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34443)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-29-C-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: 3250.1 lumens  
Efficiency: N/A  
Efficacy: 143.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.52 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

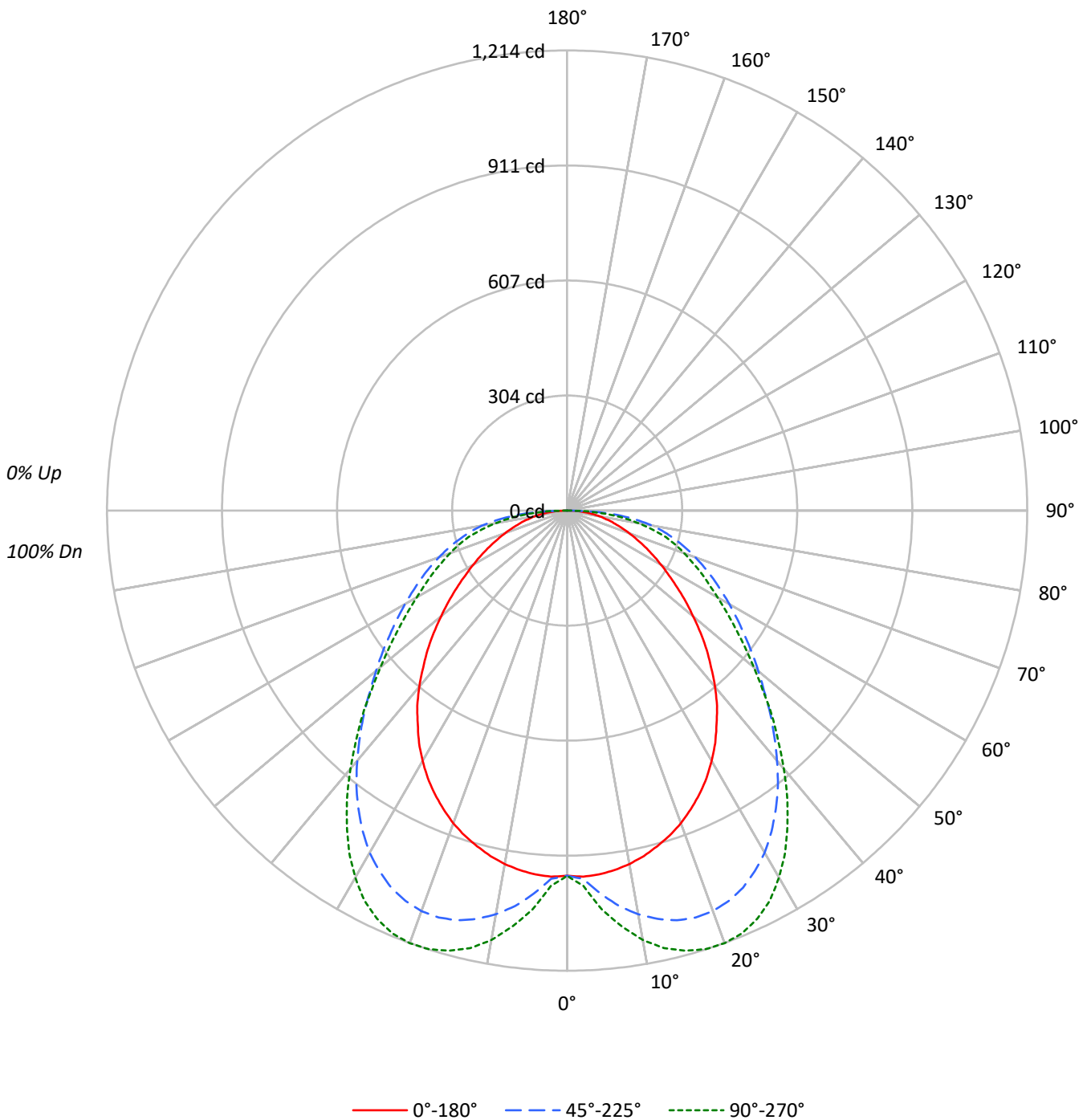
Input Watts (W): 22.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	1296	1296	1296
5°	1301	1370	1427
10°	1294	1477	1571
15°	1277	1559	1674
20°	1257	1610	1739
25°	1226	1630	1763
30°	1185	1619	1737
35°	1129	1577	1665
40°	1066	1513	1562
45°	991	1443	1453
50°	908	1378	1345
55°	833	1338	1271
60°	771	1329	1234
65°	721	1353	1244
70°	686	1415	1293
75°	664	1535	1402
80°	671	1764	1479
85°	702	2056	1610



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	3.0
10°-20°	310.1	9.5
20°-30°	489.4	15.1
30°-40°	573.5	17.6
40°-50°	548.6	16.9
50°-60°	467.5	14.4
60°-70°	375.1	11.5
70°-80°	271.6	8.4
80°-90°	115.9	3.6
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°	897.9	27.6
0°-40°	1471.4	45.3
0°-60°	2487.5	76.5
0°-90°	3250.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3250.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	964	981	1015	1050	1057	91
15°	917	1027	1119	1186	1202	259
25°	826	985	1098	1172	1188	380
35°	687	856	960	1011	1013	430
45°	521	673	758	768	764	401
55°	355	506	570	555	542	319
65°	226	381	425	397	391	225
75°	128	270	295	272	270	135
85°	46	135	133	110	104	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	963.5	963.5	963.5	963.5	963.5
2.5°	966.8	967.9	972.4	991.2	991.2
5°	963.5	981.3	1014.6	1050.1	1056.7
7.5°	956.8	996.8	1052.3	1097.8	1106.7
10°	946.8	1013.4	1081.2	1136.7	1150.0
12.5°	933.5	1023.4	1103.4	1166.6	1182.2
15°	916.9	1026.8	1118.9	1185.5	1202.1
17.5°	899.1	1025.7	1125.6	1196.6	1213.2
20°	878.0	1016.8	1124.4	1198.8	1214.4
22.5°	852.5	1004.6	1114.5	1189.9	1206.6
25°	825.8	984.6	1097.8	1172.2	1187.7
27.5°	795.9	961.3	1072.3	1144.4	1158.9
30°	762.6	931.3	1042.3	1106.7	1117.8
32.5°	727.1	895.8	1003.5	1062.3	1070.1
35°	687.1	855.8	960.2	1011.2	1013.4
37.5°	649.4	812.5	913.5	954.6	953.5
40°	607.2	765.9	861.4	894.7	889.1
42.5°	562.8	719.3	809.2	832.5	824.7
45°	520.6	672.7	758.1	768.1	763.7
47.5°	477.3	626.0	704.9	712.6	699.3
50°	434.0	583.9	658.2	654.9	642.7
52.5°	394.1	545.0	613.8	603.8	590.5
55°	355.2	506.2	570.5	555.0	541.7
57.5°	318.6	471.8	531.7	510.6	498.4
60°	286.4	438.5	494.0	469.5	458.4
62.5°	255.3	408.5	458.4	432.9	421.8
65°	226.4	380.7	425.1	397.4	390.7
67.5°	198.7	353.0	391.8	365.2	357.4
70°	174.3	324.1	359.6	333.0	328.6
72.5°	149.9	297.5	327.5	303.0	299.7
75°	127.7	269.7	295.3	272.0	269.7
77.5°	105.5	239.8	263.1	235.3	229.8
80°	86.6	209.8	227.6	195.4	190.9
82.5°	65.5	173.2	182.0	153.2	151.0
85°	45.5	135.4	133.2	109.9	104.3
87.5°	24.4	81.0	71.0	56.6	54.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)