

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: P183807

Luminaire Tested: **24SR-LD2-29-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183807  
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-LD2-29-S-UNV-L830-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2810.8 lumens  
Efficiency: N/A  
Efficacy: 124.4 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

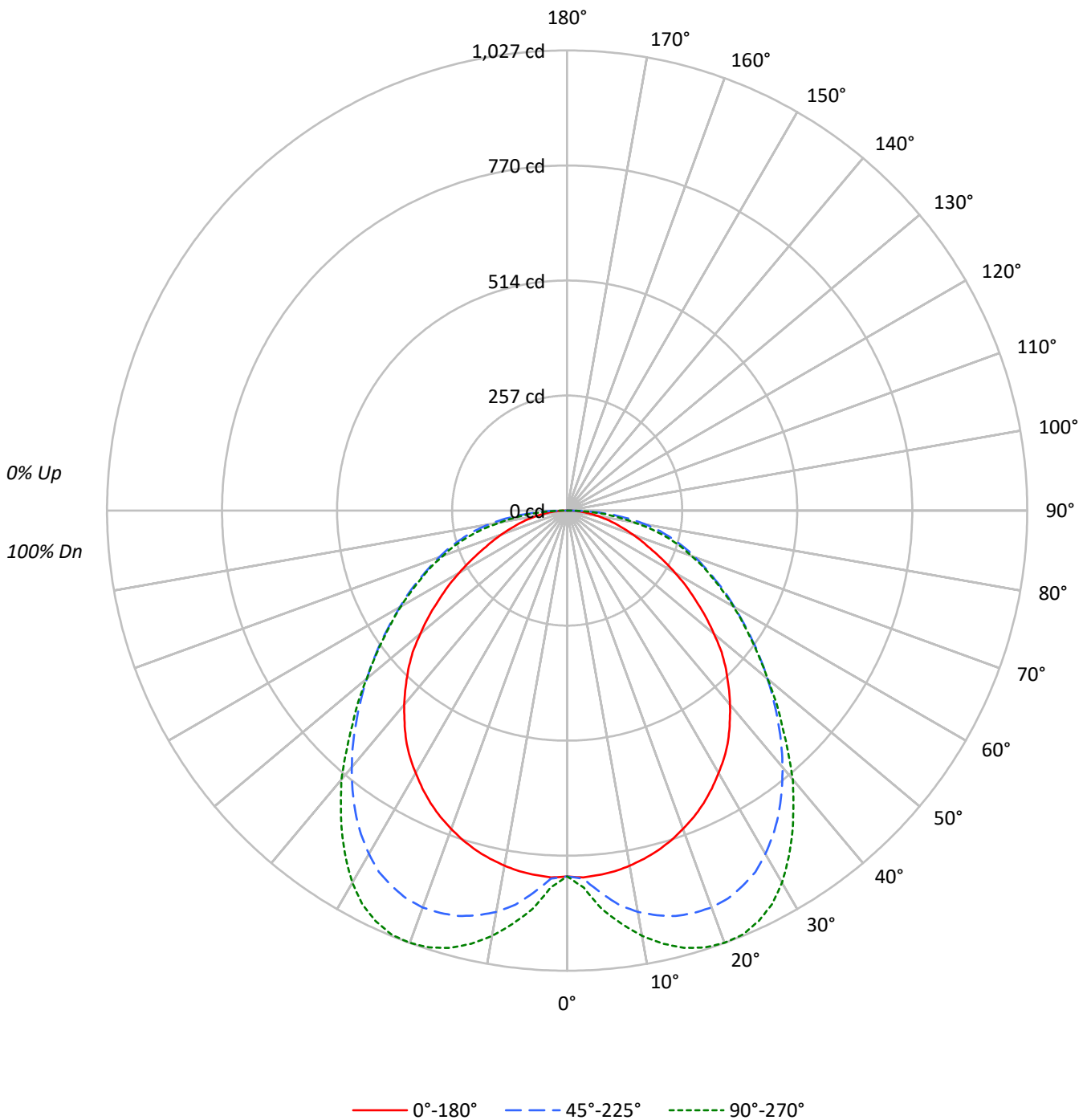
Input Watts (W): 22.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P183807

CATALOG NUMBER: 24SR-LD2-29-S-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P183807

CATALOG NUMBER: 24SR-LD2-29-S-UNV-L830-CD1-U

**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°	1098	1098	1098
5°	1103	1156	1206
10°	1100	1243	1317
15°	1093	1305	1407
20°	1083	1350	1470
25°	1070	1373	1501
30°	1050	1375	1490
35°	1029	1353	1440
40°	993	1314	1376
45°	954	1266	1291
50°	896	1222	1222
55°	824	1184	1176
60°	750	1160	1154
65°	667	1160	1145
70°	613	1194	1158
75°	570	1264	1200
80°	537	1380	1169
85°	522	1490	1223



TEST NUMBER: P183807

CATALOG NUMBER: 24SR-LD2-29-S-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.1	3.0
10°-20°	261.2	9.3
20°-30°	416.0	14.8
30°-40°	496.1	17.6
40°-50°	488.7	17.4
50°-60°	422.0	15.0
60°-70°	329.4	11.7
70°-80°	225.7	8.0
80°-90°	88.6	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°	760.3	27.1
0°-40°	1256.4	44.7
0°-60°	2167.1	77.1
0°-90°	2810.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2810.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	816	831	856	888	893	78
15°	785	868	937	995	1010	221
25°	721	834	925	995	1011	332
35°	627	733	824	871	876	391
45°	501	593	665	684	679	386
55°	351	445	505	506	501	315
65°	209	313	364	363	360	210
75°	110	213	243	233	231	116
85°	34	102	96	82	79	37
90°	0	0	0	0	0	



TEST NUMBER: P183807

CATALOG NUMBER: 24SR-LD2-29-S-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	816.3	816.3	816.3	816.3	816.3
2.5°	819.6	820.4	822.1	838.6	841.9
5°	816.3	831.1	855.9	888.0	893.0
7.5°	812.2	845.2	887.2	921.8	930.1
10°	804.8	859.2	909.5	953.2	963.9
12.5°	795.7	866.6	925.1	976.3	990.3
15°	785.0	868.2	936.7	995.2	1010.1
17.5°	771.8	865.8	941.6	1005.9	1022.4
20°	756.1	859.2	942.5	1010.1	1026.6
22.5°	739.6	849.3	937.5	1006.8	1024.1
25°	720.7	834.4	925.1	995.2	1010.9
27.5°	699.2	813.8	909.5	975.4	990.3
30°	676.1	789.9	884.7	946.6	958.9
32.5°	653.0	763.5	856.7	911.9	919.4
35°	626.7	733.0	823.7	870.7	876.5
37.5°	596.1	702.5	786.6	827.8	829.5
40°	565.6	665.4	747.9	778.4	783.3
42.5°	533.5	629.1	707.5	733.0	729.7
45°	501.3	592.8	665.4	684.4	678.6
47.5°	467.5	555.7	624.2	636.5	632.4
50°	427.9	518.6	583.8	590.4	583.8
52.5°	390.0	483.2	544.2	547.5	541.7
55°	351.3	445.3	504.6	506.3	501.3
57.5°	315.8	409.8	466.7	466.7	464.2
60°	278.7	374.3	431.2	429.6	428.8
62.5°	243.2	343.0	398.3	395.8	393.3
65°	209.4	313.3	364.4	362.8	359.5
67.5°	181.4	285.3	333.1	330.6	329.0
70°	155.8	260.6	303.4	296.8	294.4
72.5°	131.1	235.8	274.6	264.7	265.5
75°	109.7	212.7	243.2	233.3	230.9
77.5°	88.2	188.8	212.7	197.1	193.8
80°	69.3	163.3	178.1	158.3	150.9
82.5°	51.1	135.2	138.5	119.6	114.6
85°	33.8	102.2	96.5	82.5	79.2
87.5°	18.1	60.2	51.9	42.1	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)