

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: P183888

Luminaire Tested: **22SR-LD2-29-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183888  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32591)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SR-LD2-29-S-UNV-L835-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3001.3 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.61 / 1.54  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

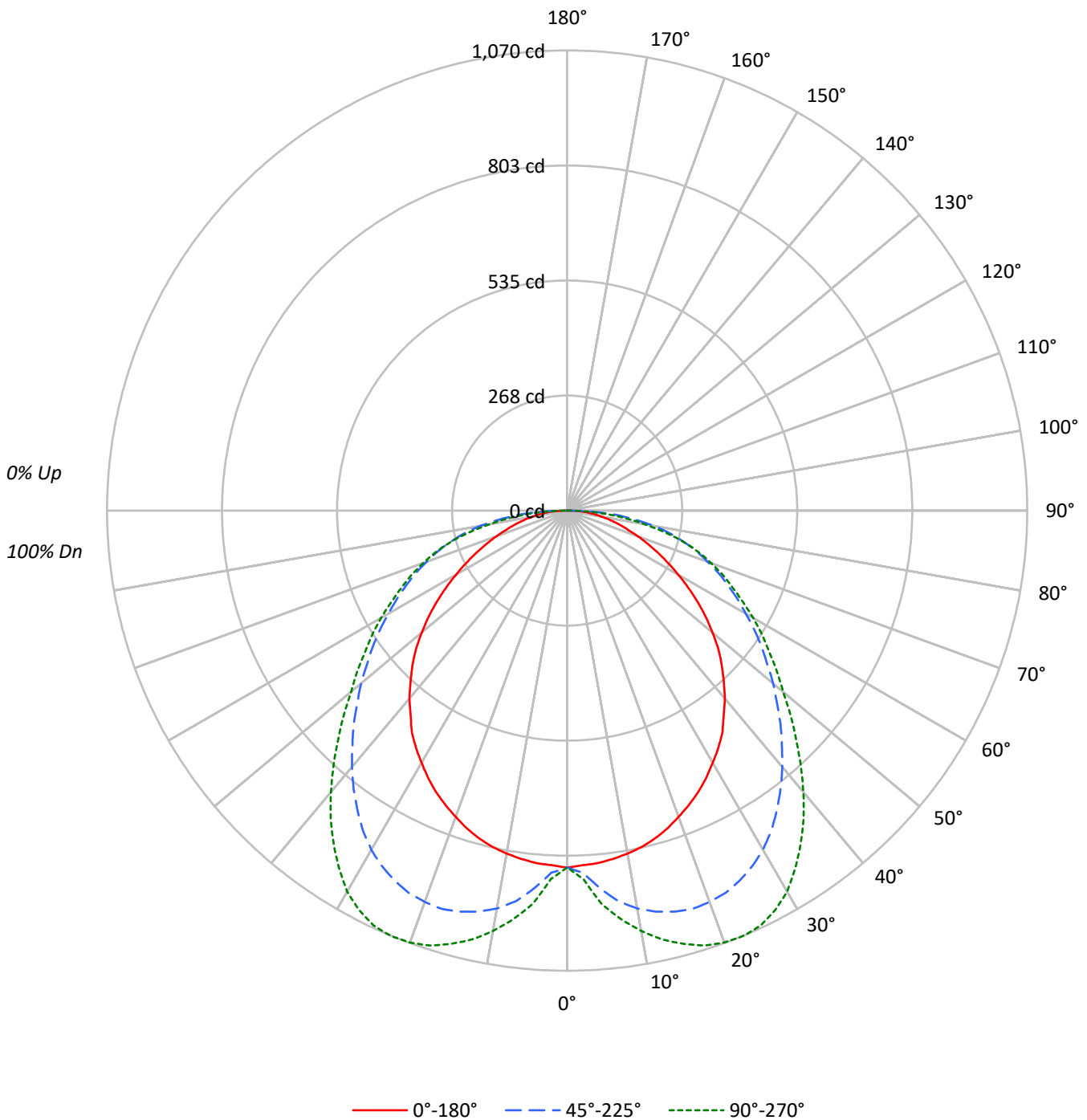
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P183888

CATALOG NUMBER: 22SR-LD2-29-S-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P183888

CATALOG NUMBER: 22SR-LD2-29-S-UNV-L835-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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	2233	2233	2233
5°	2222	2382	2479
10°	2212	2567	2713
15°	2199	2689	2906
20°	2170	2773	3061
25°	2143	2819	3161
30°	2104	2829	3178
35°	2068	2792	3110
40°	2004	2733	3001
45°	1936	2670	2868
50°	1846	2618	2744
55°	1737	2589	2690
60°	1605	2582	2690
65°	1486	2633	2706
70°	1383	2732	2800
75°	1303	2921	2906
80°	1251	3171	2836
85°	1380	3470	2803



TEST NUMBER: P183888

CATALOG NUMBER: 22SR-LD2-29-S-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.0	2.8
10°-20°	267.6	8.9
20°-30°	426.9	14.2
30°-40°	513.8	17.1
40°-50°	515.4	17.2
50°-60°	460.7	15.4
60°-70°	373.3	12.4
70°-80°	259.9	8.7
80°-90°	98.8	3.3
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°	779.4	26.0
0°-40°	1293.3	43.1
0°-60°	2269.4	75.6
0°-90°	3001.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	823	841	882	911	918	78
15°	790	882	965	1023	1043	222
25°	722	836	950	1034	1065	332
35°	630	729	850	925	947	392
45°	509	595	702	743	754	392
55°	370	464	552	569	573	331
65°	233	342	414	419	425	232
75°	125	230	281	280	280	133
85°	45	99	112	96	91	47
90°	0	0	0	0	0	



TEST NUMBER: P183888

CATALOG NUMBER: 22SR-LD2-29-S-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	829.9	829.9	829.9	829.9	829.9
2.5°	825.5	829.9	842.8	854.4	857.2
5°	822.7	841.4	881.7	910.6	917.8
7.5°	816.9	855.8	916.3	946.6	958.1
10°	809.7	871.7	939.4	978.3	992.7
12.5°	801.1	881.7	955.2	1004.2	1021.5
15°	789.5	881.7	965.3	1022.9	1043.1
17.5°	775.1	877.4	971.1	1035.9	1060.4
20°	757.8	868.8	968.2	1043.1	1069.0
22.5°	740.5	854.4	962.4	1043.1	1070.5
25°	721.8	835.6	949.5	1034.5	1064.7
27.5°	700.2	814.0	932.2	1018.6	1047.4
30°	677.1	788.1	910.6	995.6	1022.9
32.5°	654.1	759.3	883.2	963.9	986.9
35°	629.6	729.0	850.0	925.0	946.6
37.5°	597.9	694.4	815.5	883.2	903.3
40°	570.5	662.7	778.0	838.5	854.4
42.5°	538.8	628.2	739.1	791.0	803.9
45°	508.6	595.0	701.6	743.4	753.5
47.5°	476.9	560.4	661.3	695.9	704.5
50°	440.9	527.3	625.3	654.1	655.5
52.5°	406.3	495.6	586.4	609.4	615.2
55°	370.3	463.9	551.8	569.1	573.4
57.5°	334.3	433.7	515.8	530.2	537.4
60°	298.2	402.0	479.8	492.7	499.9
62.5°	265.1	371.7	446.6	455.3	461.0
65°	233.4	341.5	413.5	419.3	425.0
67.5°	203.1	314.1	381.8	384.7	391.9
70°	175.8	286.7	347.2	350.1	355.9
72.5°	148.4	257.9	315.5	314.1	319.8
75°	125.3	230.5	280.9	279.5	279.5
77.5°	103.7	201.7	244.9	236.3	232.0
80°	80.7	171.4	204.6	187.3	183.0
82.5°	63.4	136.9	158.5	141.2	136.9
85°	44.7	99.4	112.4	96.5	90.8
87.5°	23.1	53.3	57.6	49.0	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)