

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: P183972

Luminaire Tested: **14SR-LD2-35-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183972  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166748)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14SR-LD2-35-S-UNV-L830-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3358.6 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

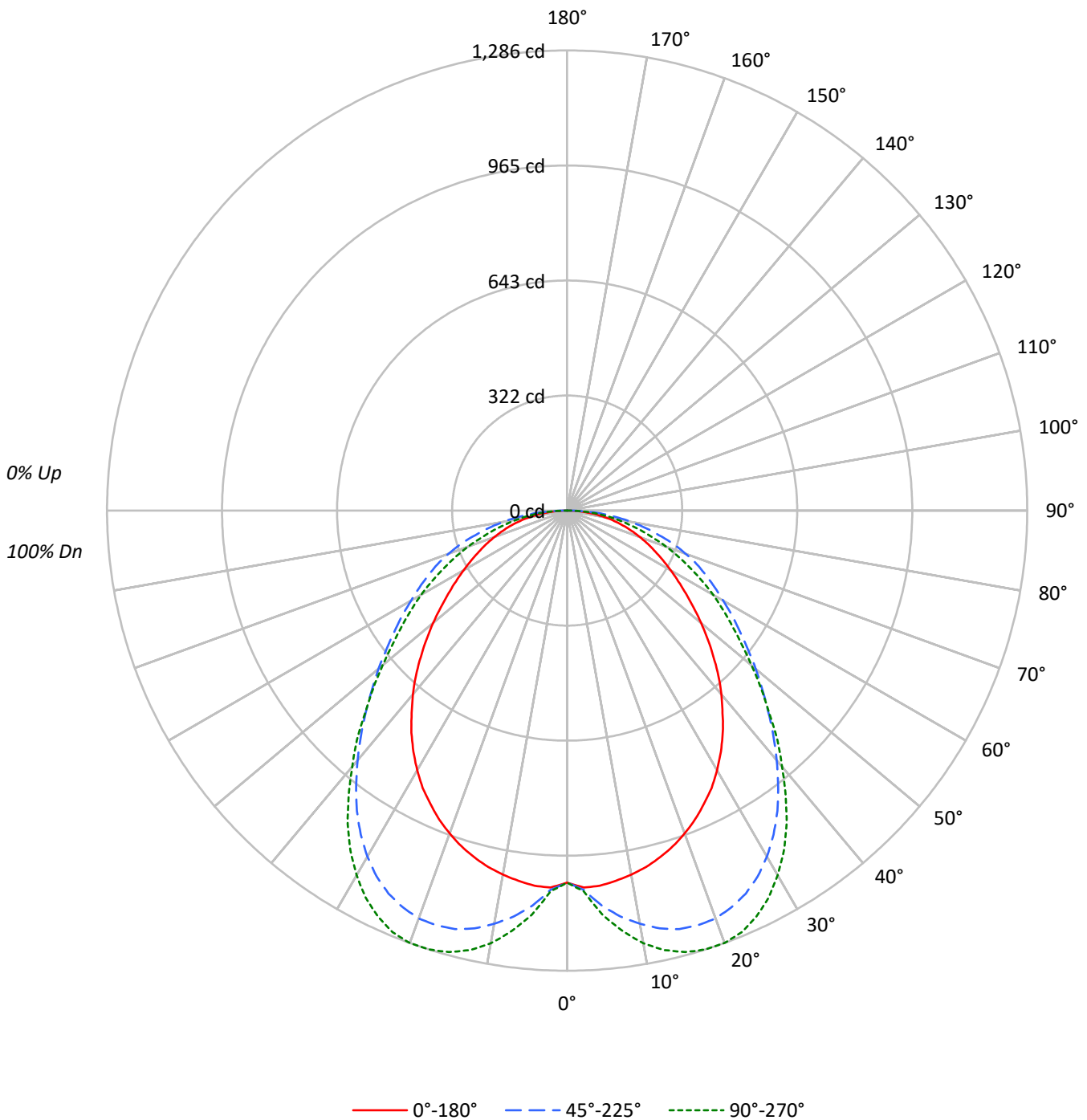
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P183972

CATALOG NUMBER: 14SR-LD2-35-S-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P183972

CATALOG NUMBER: 14SR-LD2-35-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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	2797	2797	2797
5°	2843	2993	3062
10°	2823	3203	3356
15°	2795	3373	3558
20°	2749	3474	3682
25°	2685	3506	3716
30°	2604	3470	3656
35°	2492	3365	3513
40°	2356	3199	3282
45°	2202	3026	3034
50°	2045	2880	2817
55°	1900	2765	2644
60°	1799	2710	2538
65°	1733	2729	2415
70°	1703	2766	2310
75°	1693	2764	2206
80°	1661	2789	2159
85°	1590	2912	2183



TEST NUMBER: P183972

CATALOG NUMBER: 14SR-LD2-35-S-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.4	3.2
10°-20°	332.8	9.9
20°-30°	522.2	15.5
30°-40°	608.9	18.1
40°-50°	579.3	17.2
50°-60°	489.1	14.6
60°-70°	381.0	11.3
70°-80°	248.5	7.4
80°-90°	90.5	2.7
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°	961.4	28.6
0°-40°	1570.2	46.8
0°-60°	2638.6	78.6
0°-90°	3358.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3358.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1052	1057	1108	1134	1134	100
15°	1003	1102	1211	1264	1277	283
25°	904	1052	1181	1237	1252	416
35°	759	909	1024	1061	1069	473
45°	579	709	795	804	797	447
55°	405	532	589	572	564	364
65°	272	390	429	394	379	271
75°	163	262	266	223	212	171
85°	52	112	94	73	71	57
90°	0	0	0	0	0	



TEST NUMBER: P183972

CATALOG NUMBER: 14SR-LD2-35-S-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1039.4	1039.4	1039.4	1039.4	1039.4
2.5°	1054.4	1041.6	1060.8	1073.6	1065.1
5°	1052.3	1056.6	1108.1	1133.6	1133.6
7.5°	1043.6	1073.6	1144.4	1178.6	1185.1
10°	1033.1	1088.6	1172.3	1217.3	1228.1
12.5°	1020.1	1099.4	1195.9	1245.1	1258.1
15°	1003.1	1101.6	1210.9	1264.4	1277.3
17.5°	983.6	1097.3	1215.1	1273.1	1285.9
20°	960.1	1088.6	1213.1	1270.9	1285.9
22.5°	934.4	1073.6	1200.1	1258.1	1275.1
25°	904.3	1052.3	1180.9	1236.6	1251.6
27.5°	874.3	1022.3	1153.1	1204.4	1219.4
30°	838.0	990.1	1116.6	1165.9	1176.6
32.5°	799.3	951.6	1073.6	1118.6	1127.3
35°	758.6	908.6	1024.4	1060.8	1069.4
37.5°	713.6	859.3	968.6	1000.8	1003.1
40°	670.8	810.1	910.8	936.6	934.4
42.5°	625.8	760.8	853.0	870.1	870.1
45°	578.6	709.3	795.1	803.6	797.3
47.5°	533.6	662.3	739.3	741.5	735.1
50°	488.6	615.1	688.0	681.5	673.0
52.5°	445.8	570.1	636.5	623.6	615.1
55°	405.0	531.5	589.3	572.3	563.6
57.5°	368.6	493.0	546.5	525.1	516.5
60°	334.3	456.5	503.6	480.0	471.5
62.5°	302.2	422.3	465.0	437.3	424.3
65°	272.2	390.0	428.6	394.3	379.3
67.5°	244.3	357.8	392.3	349.3	336.5
70°	216.5	325.8	351.5	306.5	293.6
72.5°	188.5	293.6	312.8	263.5	250.8
75°	162.8	261.5	265.8	222.8	212.2
77.5°	135.0	233.5	225.0	184.3	173.5
80°	107.2	197.2	180.0	145.8	139.3
82.5°	79.3	154.3	137.2	109.3	105.0
85°	51.5	111.5	94.3	72.8	70.7
87.5°	25.7	60.0	47.2	36.5	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)