

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: P183983

Luminaire Tested: **14SR-LD2-45-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183983  
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-LD2-45-S-UNV-L835-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4460.4 lumens  
Efficiency: N/A  
Efficacy: 117.7 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

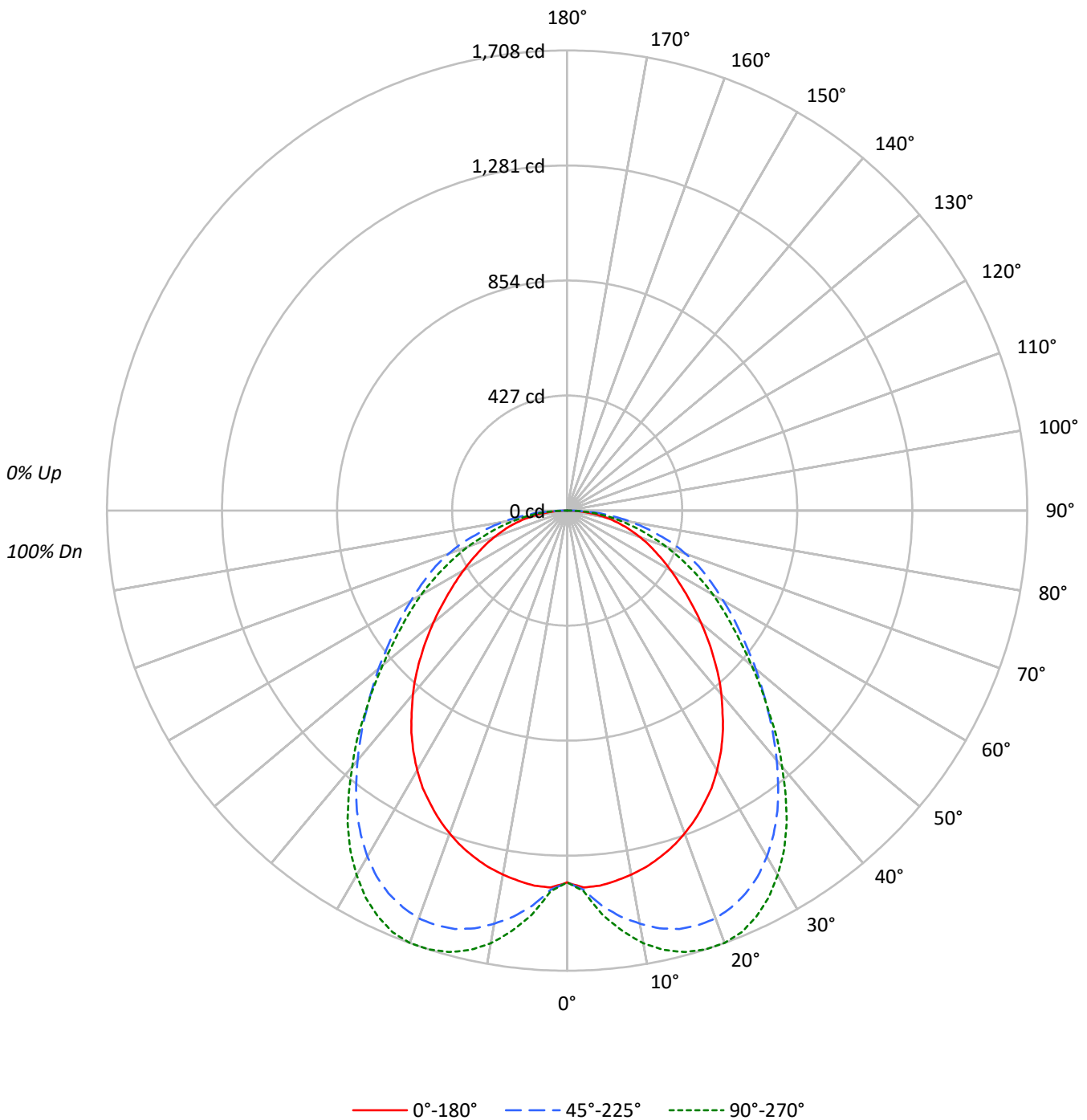
Input Watts (W): 37.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P183983

CATALOG NUMBER: 14SR-LD2-45-S-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P183983

CATALOG NUMBER: 14SR-LD2-45-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	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°	3714	3714	3714
5°	3775	3975	4067
10°	3749	4254	4457
15°	3711	4480	4726
20°	3651	4613	4890
25°	3566	4657	4935
30°	3458	4608	4855
35°	3310	4469	4665
40°	3130	4249	4359
45°	2924	4018	4030
50°	2717	3825	3742
55°	2524	3672	3512
60°	2390	3599	3370
65°	2302	3624	3207
70°	2262	3673	3068
75°	2248	3670	2931
80°	2207	3705	2867
85°	2112	3866	2902



TEST NUMBER: P183983

CATALOG NUMBER: 14SR-LD2-45-S-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.3	3.2
10°-20°	442.0	9.9
20°-30°	693.5	15.5
30°-40°	808.6	18.1
40°-50°	769.4	17.2
50°-60°	649.5	14.6
60°-70°	506.0	11.3
70°-80°	330.0	7.4
80°-90°	120.1	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°	1276.7	28.6
0°-40°	2085.3	46.8
0°-60°	3504.2	78.6
0°-90°	4460.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4460.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1398	1403	1472	1506	1506	132
15°	1332	1463	1608	1679	1696	375
25°	1201	1398	1568	1642	1662	553
35°	1008	1207	1360	1409	1420	628
45°	768	942	1056	1067	1059	593
55°	538	706	783	760	748	484
65°	362	518	569	524	504	360
75°	216	347	353	296	282	227
85°	68	148	125	97	94	76
90°	0	0	0	0	0	



TEST NUMBER: P183983

CATALOG NUMBER: 14SR-LD2-45-S-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1380.3	1380.3	1380.3	1380.3	1380.3
2.5°	1400.3	1383.3	1408.9	1425.8	1414.5
5°	1397.5	1403.2	1471.6	1505.5	1505.5
7.5°	1386.0	1425.8	1519.8	1565.3	1573.9
10°	1372.0	1445.8	1556.9	1616.7	1631.0
12.5°	1354.8	1460.0	1588.2	1653.6	1670.8
15°	1332.1	1463.0	1608.1	1679.2	1696.4
17.5°	1306.3	1457.3	1613.8	1690.7	1707.7
20°	1275.1	1445.8	1611.0	1687.8	1707.7
22.5°	1240.9	1425.8	1593.8	1670.8	1693.4
25°	1201.0	1397.5	1568.3	1642.3	1662.2
27.5°	1161.2	1357.7	1531.3	1599.5	1619.4
30°	1113.0	1314.9	1482.9	1548.3	1562.6
32.5°	1061.6	1263.7	1425.8	1485.6	1497.2
35°	1007.5	1206.7	1360.4	1408.9	1420.2
37.5°	947.7	1141.3	1286.4	1329.2	1332.1
40°	890.9	1075.8	1209.6	1243.8	1240.9
42.5°	831.1	1010.4	1132.9	1155.5	1155.5
45°	768.4	942.0	1055.9	1067.2	1058.9
47.5°	708.6	879.6	981.9	984.8	976.2
50°	648.9	816.8	913.7	905.1	893.8
52.5°	592.0	757.1	845.4	828.2	816.8
55°	537.9	705.9	782.7	760.0	748.5
57.5°	489.5	654.7	725.8	697.3	686.0
60°	444.0	606.3	668.8	637.5	626.2
62.5°	401.4	560.8	617.6	580.7	563.5
65°	361.6	518.0	569.2	523.7	503.7
67.5°	324.4	475.2	520.9	463.9	446.9
70°	287.5	432.6	466.8	407.1	389.9
72.5°	250.4	389.9	415.4	350.0	333.0
75°	216.2	347.3	353.0	295.9	281.9
77.5°	179.3	310.2	298.8	244.7	230.5
80°	142.4	261.9	239.1	193.6	185.0
82.5°	105.3	204.9	182.2	145.1	139.5
85°	68.4	148.1	125.2	96.7	94.0
87.5°	34.2	79.7	62.7	48.4	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)