

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: P183930

Luminaire Tested: **14SR-LD2-35-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34451)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-35-C-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3855.0 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.42 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

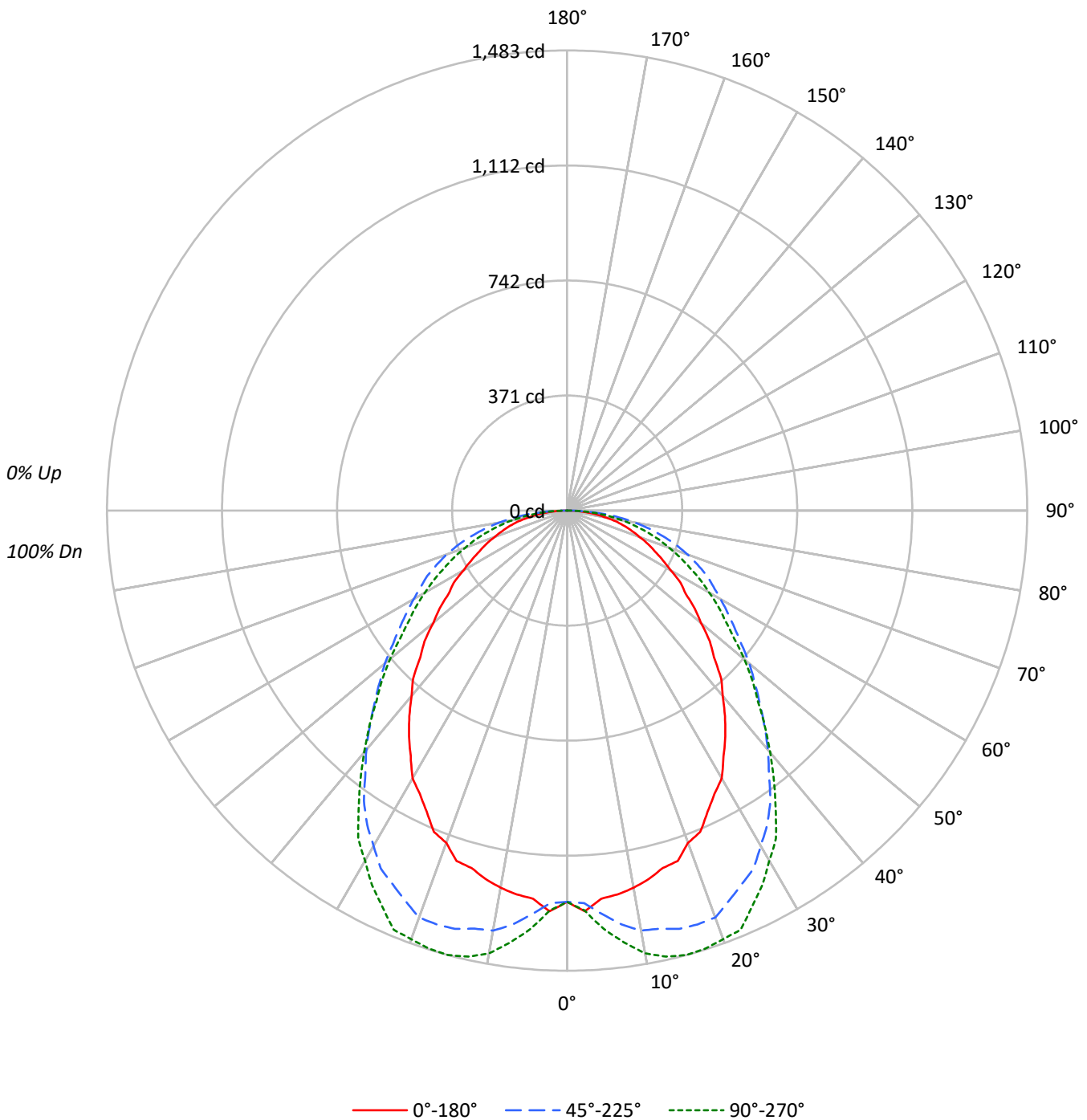
Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183930

CATALOG NUMBER: 14SR-LD2-35-C-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P183930

CATALOG NUMBER: 14SR-LD2-35-C-UNV-L850-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	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	70	62	55	80	69	61	55	67	59	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	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	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°	3393	3393	3393
5°	3392	3527	3656
10°	3373	3756	3958
15°	3321	3888	4131
20°	3263	3997	4209
25°	3179	3948	4183
30°	3096	3877	4049
35°	2918	3751	3847
40°	2739	3538	3575
45°	2545	3340	3310
50°	2357	3209	3121
55°	2183	3088	2927
60°	2077	3073	2845
65°	1986	3165	2777
70°	1955	3245	2745
75°	1979	3325	2748
80°	1925	3440	2785
85°	1877	3511	2776



TEST NUMBER: P183930

CATALOG NUMBER: 14SR-LD2-35-C-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	3.3
10°-20°	390.2	10.1
20°-30°	600.8	15.6
30°-40°	687.7	17.8
40°-50°	650.1	16.9
50°-60°	552.1	14.3
60°-70°	439.1	11.4
70°-80°	297.7	7.7
80°-90°	110.4	2.9
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°	1118.0	29.0
0°-40°	1805.7	46.8
0°-60°	3007.9	78.0
0°-90°	3855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1256	1282	1306	1351	1353	120
15°	1192	1319	1396	1478	1483	337
25°	1071	1250	1330	1401	1409	494
35°	888	1068	1142	1174	1171	555
45°	669	827	878	888	870	520
55°	465	605	658	642	624	423
65°	312	447	497	455	436	312
75°	190	307	320	275	264	200
85°	61	130	114	92	90	67
90°	0	0	0	0	0	



TEST NUMBER: P183930

CATALOG NUMBER: 14SR-LD2-35-C-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1292.6	1274.1	1266.2	1292.6	1290.0
5°	1255.6	1282.0	1305.8	1350.8	1353.4
7.5°	1247.7	1308.5	1345.5	1401.0	1403.6
10°	1234.4	1313.7	1374.5	1440.6	1448.6
12.5°	1215.9	1319.0	1379.8	1461.8	1472.3
15°	1192.2	1319.0	1395.7	1477.6	1482.9
17.5°	1184.2	1319.0	1398.3	1469.7	1480.3
20°	1139.3	1305.8	1395.7	1459.1	1469.7
22.5°	1120.8	1282.0	1361.3	1438.0	1461.8
25°	1070.6	1250.3	1329.6	1401.0	1408.9
27.5°	1028.3	1215.9	1300.5	1361.3	1361.3
30°	996.5	1173.6	1247.7	1305.8	1303.2
32.5°	938.4	1115.5	1200.1	1245.0	1252.9
35°	888.2	1067.9	1141.9	1173.6	1171.0
37.5°	835.3	1007.1	1067.9	1104.9	1094.3
40°	779.8	946.3	1007.1	1030.9	1017.7
42.5°	734.9	882.9	941.0	956.9	943.7
45°	668.8	827.4	877.6	888.2	869.7
47.5°	623.8	766.6	819.4	819.4	808.9
50°	563.0	708.4	766.6	750.7	745.4
52.5°	518.1	658.2	708.4	695.2	679.3
55°	465.2	605.3	658.2	642.3	623.8
57.5°	433.5	563.0	613.3	594.8	578.9
60°	385.9	520.7	571.0	547.2	528.7
62.5°	348.9	483.7	531.3	502.2	483.7
65°	311.9	446.7	497.0	454.7	436.2
67.5°	282.8	412.4	454.7	409.7	393.9
70°	248.5	372.7	412.4	364.8	348.9
72.5°	219.4	341.0	367.4	319.8	309.3
75°	190.3	306.6	319.8	274.9	264.3
77.5°	161.2	272.3	272.3	232.6	222.0
80°	124.2	232.6	222.0	187.7	179.7
82.5°	95.2	185.0	169.2	140.1	134.8
85°	60.8	129.5	113.7	92.5	89.9
87.5°	29.1	68.7	55.5	44.9	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)