

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: P183980

Luminaire Tested: **14SR-LD2-41-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183980
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-LD2-41-S-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: 4513.9 lumens
Efficiency: N/A
Efficacy: 132.8 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

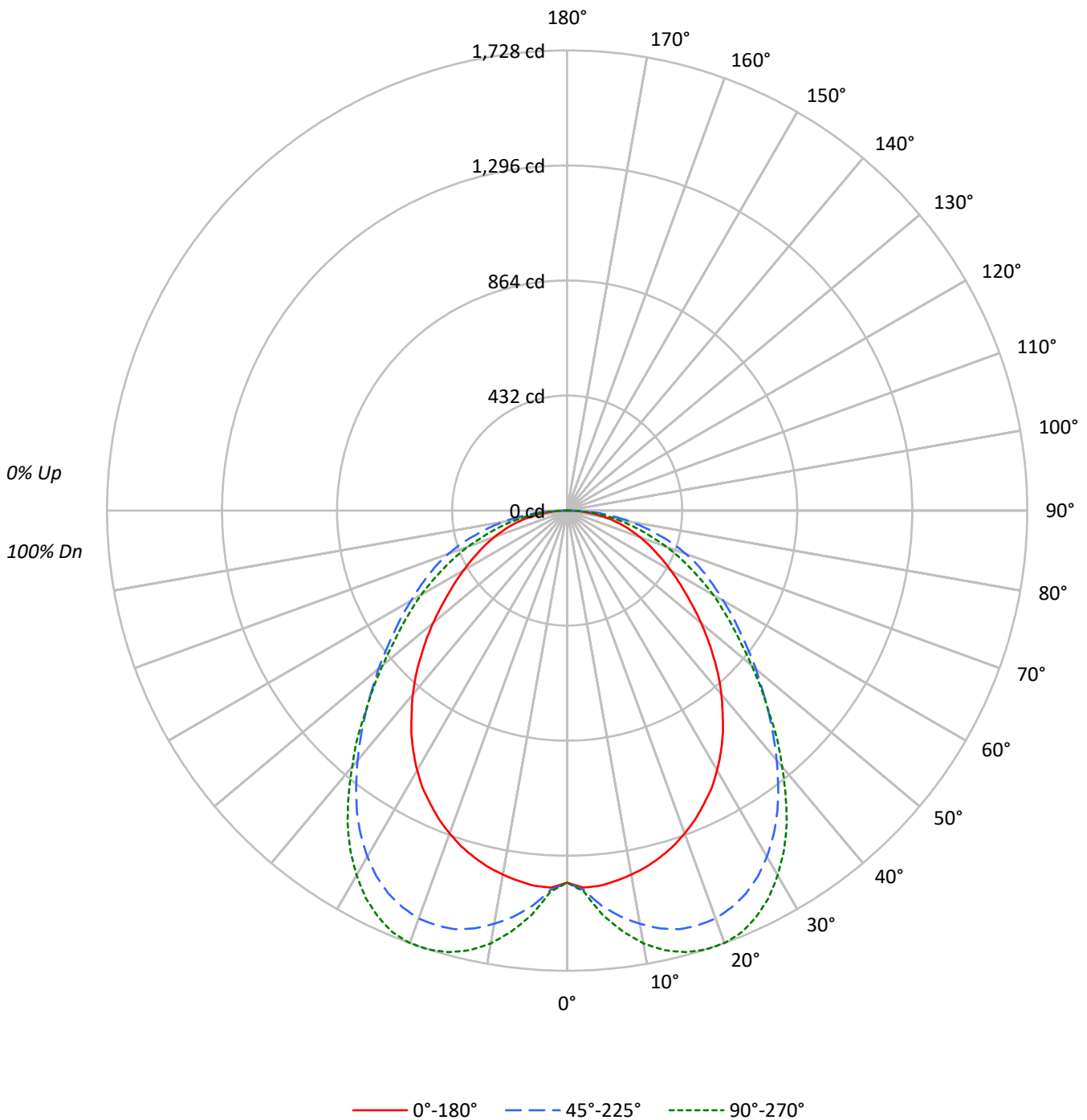
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	3759	3759	3759
5°	3820	4023	4116
10°	3794	4305	4510
15°	3756	4534	4783
20°	3695	4669	4949
25°	3609	4712	4995
30°	3500	4663	4914
35°	3349	4523	4721
40°	3167	4300	4411
45°	2959	4067	4078
50°	2749	3871	3787
55°	2554	3716	3553
60°	2418	3643	3411
65°	2330	3668	3246
70°	2290	3717	3104
75°	2275	3714	2965
80°	2233	3749	2901
85°	2137	3912	2936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	3.2
10°-20°	447.3	9.9
20°-30°	701.8	15.5
30°-40°	818.3	18.1
40°-50°	778.6	17.2
50°-60°	657.3	14.6
60°-70°	512.1	11.3
70°-80°	334.0	7.4
80°-90°	121.5	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°	1292.1	28.6
0°-40°	2110.4	46.8
0°-60°	3546.3	78.6
0°-90°	4513.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4513.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1414	1420	1489	1524	1524	134
15°	1348	1480	1627	1699	1717	380
25°	1215	1414	1587	1662	1682	560
35°	1020	1221	1377	1426	1437	636
45°	778	953	1069	1080	1072	600
55°	544	714	792	769	757	490
65°	366	524	576	530	510	364
75°	219	352	357	300	285	230
85°	69	150	127	98	95	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.9	1396.9	1396.9	1396.9	1396.9
2.5°	1417.1	1399.9	1425.8	1443.0	1431.5
5°	1414.3	1420.0	1489.2	1523.6	1523.6
7.5°	1402.6	1443.0	1538.0	1584.1	1592.8
10°	1388.4	1463.1	1575.6	1636.1	1650.5
12.5°	1371.0	1477.6	1607.2	1673.4	1690.9
15°	1348.1	1480.5	1627.4	1699.3	1716.7
17.5°	1322.0	1474.8	1633.1	1711.0	1728.2
20°	1290.4	1463.1	1630.4	1708.0	1728.2
22.5°	1255.8	1443.0	1613.0	1690.9	1713.8
25°	1215.4	1414.3	1587.1	1662.0	1682.2
27.5°	1175.1	1374.0	1549.7	1618.7	1638.9
30°	1126.3	1330.7	1500.7	1566.9	1581.3
32.5°	1074.3	1278.9	1443.0	1503.4	1515.1
35°	1019.6	1221.2	1376.7	1425.8	1437.2
37.5°	959.1	1155.0	1301.8	1345.1	1348.1
40°	901.6	1088.7	1224.2	1258.8	1255.8
42.5°	841.1	1022.5	1146.5	1169.4	1169.4
45°	777.6	953.3	1068.6	1080.0	1071.6
47.5°	717.1	890.1	993.7	996.6	987.9
50°	656.6	826.6	924.7	916.0	904.5
52.5°	599.1	766.2	855.5	838.1	826.6
55°	544.4	714.4	792.0	769.1	757.4
57.5°	495.3	662.6	734.5	705.7	694.2
60°	449.3	613.6	676.8	645.2	633.7
62.5°	406.2	567.5	625.0	587.7	570.3
65°	365.9	524.2	576.0	529.9	509.8
67.5°	328.3	480.9	527.2	469.5	452.3
70°	291.0	437.8	472.4	411.9	394.5
72.5°	253.4	394.5	420.4	354.2	337.0
75°	218.8	351.5	357.2	299.5	285.2
77.5°	181.5	313.9	302.4	247.7	233.2
80°	144.1	265.1	241.9	195.9	187.2
82.5°	106.5	207.3	184.4	146.9	141.1
85°	69.2	149.8	126.7	97.8	95.1
87.5°	34.6	80.6	63.5	49.0	46.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)