

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: P183985

Luminaire Tested: **14SR-LD2-45-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183985
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-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: 4951.1 lumens
Efficiency: N/A
Efficacy: 130.6 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

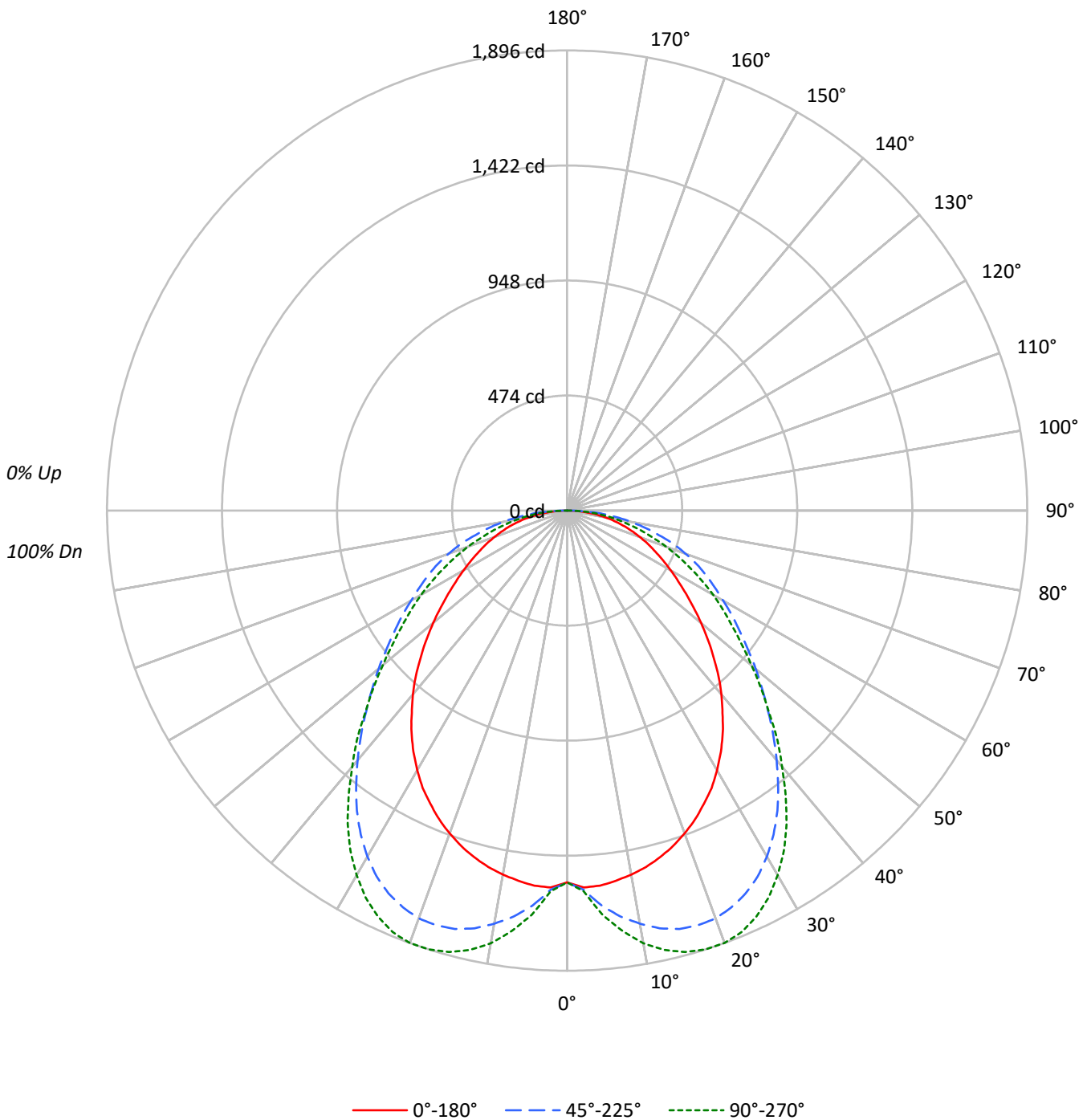
Input Watts (W): 37.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4123	4123	4123
5°	4190	4413	4514
10°	4161	4722	4947
15°	4120	4973	5246
20°	4053	5121	5428
25°	3958	5169	5478
30°	3839	5115	5390
35°	3674	4961	5179
40°	3474	4717	4839
45°	3246	4461	4473
50°	3015	4246	4153
55°	2801	4076	3898
60°	2652	3995	3741
65°	2555	4023	3560
70°	2511	4077	3404
75°	2495	4074	3253
80°	2450	4113	3181
85°	2343	4292	3220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	3.2
10°-20°	490.6	9.9
20°-30°	769.7	15.5
30°-40°	897.6	18.1
40°-50°	854.0	17.2
50°-60°	721.0	14.6
60°-70°	561.7	11.3
70°-80°	366.3	7.4
80°-90°	133.3	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°	1417.2	28.6
0°-40°	2314.7	46.8
0°-60°	3889.7	78.6
0°-90°	4951.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4951.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1551	1558	1634	1671	1671	147
15°	1479	1624	1785	1864	1883	417
25°	1333	1551	1741	1823	1845	614
35°	1118	1339	1510	1564	1576	697
45°	853	1046	1172	1185	1175	659
55°	597	784	869	844	831	537
65°	401	575	632	581	559	399
75°	240	386	392	328	313	252
85°	76	164	139	107	104	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.2	1532.2	1532.2	1532.2	1532.2
2.5°	1554.3	1535.4	1563.8	1582.7	1570.1
5°	1551.3	1557.6	1633.5	1671.1	1671.1
7.5°	1538.5	1582.7	1687.0	1737.5	1747.0
10°	1522.9	1604.8	1728.2	1794.5	1810.4
12.5°	1503.8	1620.6	1762.9	1835.5	1854.6
15°	1478.7	1623.9	1785.0	1863.9	1883.0
17.5°	1450.0	1617.6	1791.3	1876.7	1895.6
20°	1415.3	1604.8	1788.3	1873.4	1895.6
22.5°	1377.4	1582.7	1769.2	1854.6	1879.7
25°	1333.1	1551.3	1740.8	1822.9	1845.0
27.5°	1288.9	1507.0	1699.8	1775.4	1797.6
30°	1235.4	1459.6	1646.0	1718.6	1734.5
32.5°	1178.3	1402.8	1582.7	1649.0	1661.8
35°	1118.3	1339.4	1510.1	1563.8	1576.4
37.5°	1051.9	1266.8	1427.9	1475.4	1478.7
40°	988.9	1194.2	1342.7	1380.6	1377.4
42.5°	922.5	1121.6	1257.5	1282.6	1282.6
45°	852.9	1045.7	1172.1	1184.6	1175.3
47.5°	786.6	976.3	1089.9	1093.2	1083.6
50°	720.2	906.7	1014.2	1004.7	992.1
52.5°	657.2	840.3	938.4	919.3	906.7
55°	597.1	783.6	868.7	843.6	830.8
57.5°	543.3	726.8	805.7	774.0	761.4
60°	492.8	673.0	742.3	707.7	695.1
62.5°	445.6	622.5	685.5	644.6	625.5
65°	401.3	575.0	631.8	581.3	559.1
67.5°	360.1	527.5	578.2	514.9	496.1
70°	319.2	480.2	518.2	451.8	432.7
72.5°	277.9	432.7	461.1	388.5	369.7
75°	240.0	385.5	391.8	328.4	312.9
77.5°	199.0	344.3	331.7	271.7	255.8
80°	158.1	290.8	265.4	214.9	205.3
82.5°	116.9	227.4	202.3	161.1	154.8
85°	75.9	164.4	139.0	107.3	104.3
87.5°	37.9	88.5	69.6	53.8	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)