

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: P183982

Luminaire Tested: **14SR-LD2-45-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183982  
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-L830-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

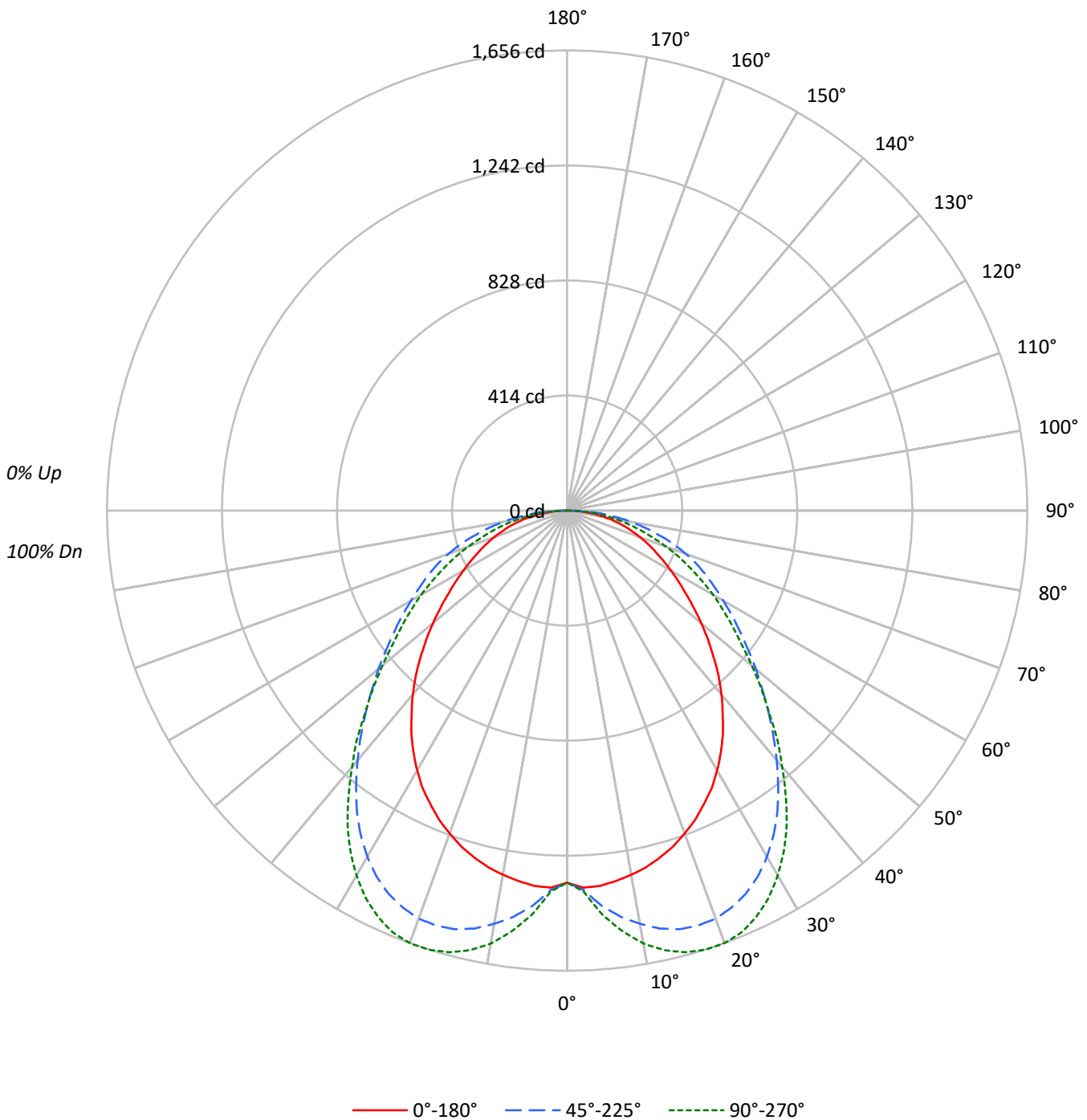
Lumens per Lamp: N/A  
Luminaire Lumens: 4326.6 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.9  
Input Voltage (V): NR  
Input Current (A<sub>in</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



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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°	3603	3603	3603
5°	3662	3856	3945
10°	3636	4127	4323
15°	3600	4346	4584
20°	3542	4475	4744
25°	3459	4517	4787
30°	3355	4470	4710
35°	3210	4335	4526
40°	3035	4122	4228
45°	2836	3898	3909
50°	2635	3710	3630
55°	2448	3562	3406
60°	2317	3491	3269
65°	2233	3515	3111
70°	2194	3563	2976
75°	2180	3560	2843
80°	2140	3594	2780
85°	2047	3748	2813



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.0	3.2
10°-20°	428.8	9.9
20°-30°	672.7	15.5
30°-40°	784.3	18.1
40°-50°	746.3	17.2
50°-60°	630.0	14.6
60°-70°	490.9	11.3
70°-80°	320.1	7.4
80°-90°	116.5	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°	1238.4	28.6
0°-40°	2022.8	46.8
0°-60°	3399.1	78.6
0°-90°	4326.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4326.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1356	1361	1427	1460	1460	128
15°	1292	1419	1560	1629	1646	364
25°	1165	1356	1521	1593	1612	536
35°	977	1170	1320	1367	1378	610
45°	745	914	1024	1035	1027	576
55°	522	685	759	737	726	470
65°	351	502	552	508	489	349
75°	210	337	342	287	273	220
85°	66	144	121	94	91	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1338.9	1338.9	1338.9	1338.9	1338.9
2.5°	1358.3	1341.8	1366.6	1383.1	1372.1
5°	1355.6	1361.1	1427.4	1460.4	1460.4
7.5°	1344.4	1383.1	1474.2	1518.3	1526.7
10°	1330.8	1402.4	1510.2	1568.2	1582.0
12.5°	1314.1	1416.2	1540.5	1604.0	1620.7
15°	1292.2	1419.1	1559.9	1628.8	1645.5
17.5°	1267.1	1413.6	1565.3	1640.0	1656.5
20°	1236.8	1402.4	1562.7	1637.2	1656.5
22.5°	1203.7	1383.1	1546.0	1620.7	1642.6
25°	1165.0	1355.6	1521.2	1593.0	1612.3
27.5°	1126.4	1317.0	1485.4	1551.5	1570.8
30°	1079.6	1275.5	1438.4	1501.9	1515.7
32.5°	1029.7	1225.8	1383.1	1441.0	1452.2
35°	977.2	1170.5	1319.6	1366.6	1377.6
37.5°	919.3	1107.0	1247.8	1289.3	1292.2
40°	864.1	1043.6	1173.3	1206.5	1203.7
42.5°	806.2	980.1	1098.9	1120.9	1120.9
45°	745.3	913.8	1024.2	1035.2	1027.1
47.5°	687.4	853.2	952.4	955.3	946.9
50°	629.4	792.3	886.3	878.0	867.0
52.5°	574.3	734.4	820.0	803.3	792.3
55°	521.8	684.7	759.2	737.2	726.0
57.5°	474.8	635.1	704.1	676.4	665.4
60°	430.6	588.1	648.7	618.4	607.4
62.5°	389.4	544.0	599.1	563.3	546.6
65°	350.7	502.5	552.1	507.9	488.6
67.5°	314.7	461.0	505.3	450.0	433.5
70°	278.9	419.7	452.8	394.8	378.2
72.5°	242.9	378.2	403.0	339.5	323.0
75°	209.7	336.9	342.4	287.0	273.4
77.5°	173.9	300.9	289.9	237.4	223.6
80°	138.1	254.1	231.9	187.8	179.4
82.5°	102.1	198.7	176.8	140.8	135.3
85°	66.3	143.6	121.4	93.8	91.1
87.5°	33.2	77.3	60.8	47.0	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)