

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: P238716

Luminaire Tested: **14EN-LD2-51-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-51-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4884.7 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

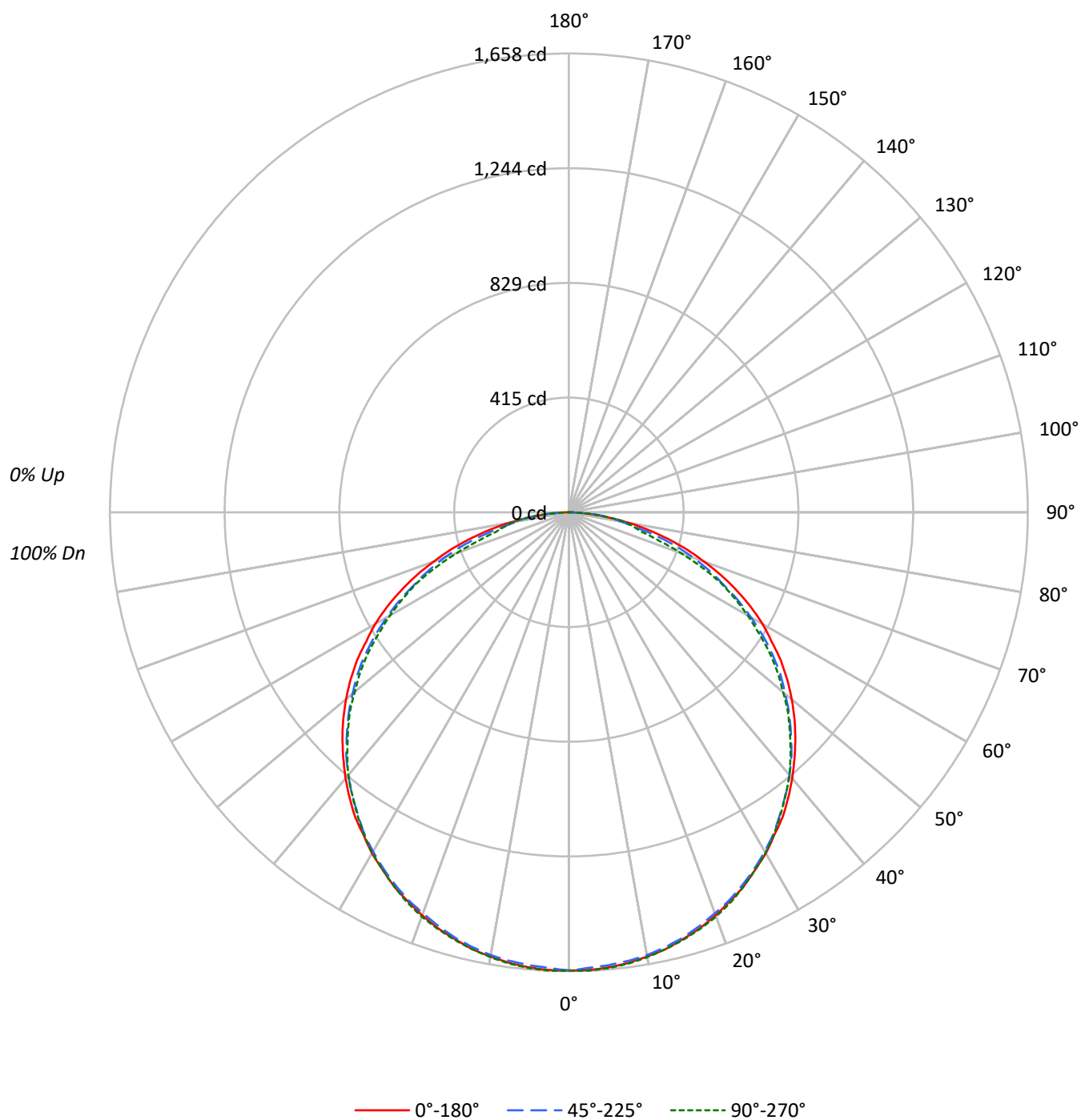
Input Watts (W): 44.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26		
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4648	4648	4648
5°	4652	4630	4659
10°	4646	4632	4654
15°	4640	4625	4647
20°	4630	4607	4646
25°	4625	4601	4625
30°	4614	4589	4605
35°	4612	4559	4568
40°	4601	4544	4544
45°	4595	4502	4482
50°	4592	4456	4411
55°	4577	4400	4336
60°	4540	4264	4192
65°	4444	4084	4032
70°	4262	3923	3541
75°	4007	3530	2971
80°	3549	3048	3341
85°	2745	3161	2996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	3.2
10°-20°	450.2	9.2
20°-30°	686.3	14.0
30°-40°	835.7	17.1
40°-50°	878.7	18.0
50°-60°	806.6	16.5
60°-70°	619.7	12.7
70°-80°	345.9	7.1
80°-90°	105.0	2.1
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°	1293.2	26.5
0°-40°	2128.9	43.6
0°-60°	3814.2	78.1
0°-90°	4884.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4884.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1650	1650	1642	1650	1653	157
15°	1596	1596	1591	1596	1599	451
25°	1493	1488	1485	1490	1493	688
35°	1346	1340	1330	1333	1333	841
45°	1157	1149	1134	1129	1129	893
55°	935	927	899	883	886	834
65°	669	651	615	607	607	661
75°	369	351	325	282	274	390
85°	85	88	98	96	93	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1655.4	1655.4	1655.4	1655.4	1655.4
2.5°	1655.4	1655.4	1647.7	1655.4	1658.0
5°	1650.3	1650.3	1642.5	1650.3	1652.9
7.5°	1642.5	1642.5	1634.8	1639.9	1645.1
10°	1629.6	1629.6	1624.4	1629.6	1632.2
12.5°	1616.7	1614.1	1609.0	1614.1	1616.7
15°	1596.0	1596.0	1590.9	1596.0	1598.6
17.5°	1575.4	1572.8	1567.6	1575.4	1578.0
20°	1549.6	1547.0	1541.8	1549.6	1554.7
22.5°	1521.1	1518.6	1516.0	1523.7	1526.3
25°	1492.7	1487.6	1485.0	1490.2	1492.7
27.5°	1456.6	1454.0	1451.4	1454.0	1456.6
30°	1423.0	1417.8	1415.3	1415.3	1420.4
32.5°	1381.7	1379.1	1376.5	1379.1	1379.1
35°	1345.5	1340.4	1330.0	1332.6	1332.6
37.5°	1301.6	1293.9	1286.1	1286.1	1286.1
40°	1255.1	1250.0	1239.6	1237.1	1239.6
42.5°	1206.1	1200.9	1190.6	1182.8	1185.4
45°	1157.0	1149.3	1133.8	1128.6	1128.6
47.5°	1105.3	1097.6	1079.5	1071.8	1074.4
50°	1051.1	1040.8	1020.1	1009.8	1009.8
52.5°	994.3	984.0	963.3	950.4	950.4
55°	934.9	927.2	898.7	883.2	885.8
57.5°	867.8	860.0	831.6	813.5	813.5
60°	808.4	792.9	759.3	746.4	746.4
62.5°	741.2	723.1	689.6	674.1	676.6
65°	668.9	650.8	614.7	606.9	606.9
67.5°	596.6	581.1	547.5	534.6	521.7
70°	519.1	503.6	477.8	446.8	431.3
72.5°	446.8	428.7	405.5	359.0	343.5
75°	369.3	351.2	325.4	281.5	273.8
77.5°	294.4	278.9	242.8	232.4	237.6
80°	219.5	214.4	188.5	198.9	206.6
82.5°	147.2	144.6	149.8	155.0	155.0
85°	85.2	87.8	98.1	95.6	93.0
87.5°	36.2	43.9	41.3	41.3	41.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)