

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: P219286

Luminaire Tested: **14AC-LD5-44-UNV-L840-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P219286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14AC-LD5-44-UNV-L840-CD1-U
Description: ACCORD 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4574.7 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

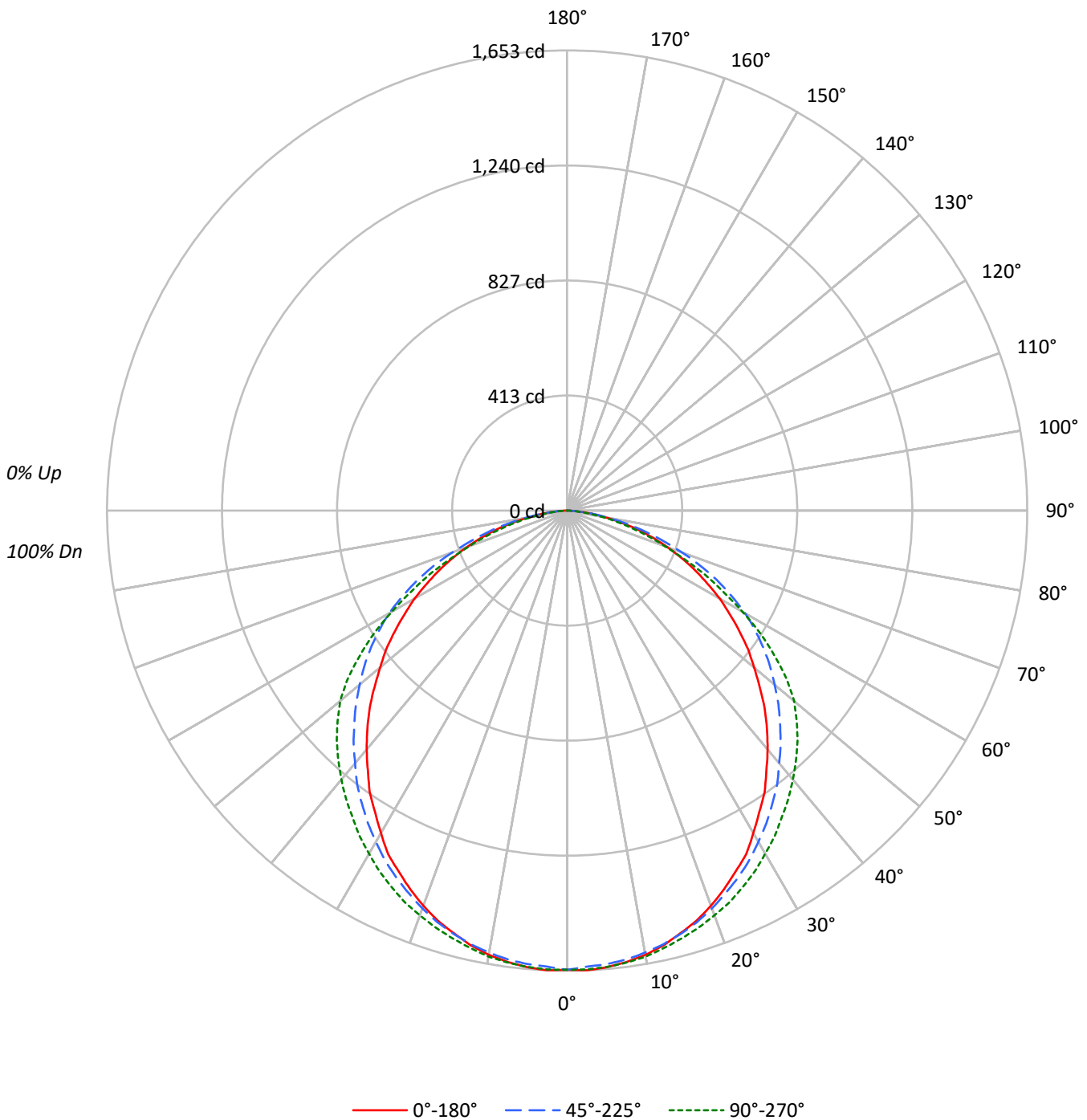
Input Watts (W): 41.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64		73	67	63		70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	46		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33		44	37	32		43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4439	4439	4439
5°	4438	4384	4406
10°	4407	4338	4368
15°	4350	4284	4316
20°	4287	4219	4274
25°	4200	4146	4233
30°	4098	4062	4181
35°	3991	3977	4127
40°	3854	3874	4088
45°	3724	3779	4050
50°	3562	3683	3982
55°	3424	3586	3736
60°	3267	3452	3337
65°	3061	3185	2868
70°	2819	2770	2309
75°	2486	2258	1797
80°	1915	1570	1200
85°	1208	673	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.4
10°-20°	445.9	9.7
20°-30°	672.7	14.7
30°-40°	806.6	17.6
40°-50°	837.0	18.3
50°-60°	755.6	16.5
60°-70°	550.3	12.0
70°-80°	288.7	6.3
80°-90°	61.8	1.3
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°	1274.6	27.9
0°-40°	2081.2	45.5
0°-60°	3673.9	80.3
0°-90°	4574.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4574.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1646	1643	1635	1646	1645	156
15°	1572	1572	1574	1592	1591	444
25°	1431	1438	1454	1486	1492	660
35°	1236	1248	1285	1334	1344	771
45°	1003	1025	1081	1149	1170	772
55°	756	782	861	912	910	676
65°	506	537	595	568	547	501
75°	261	299	289	249	237	275
85°	50	60	44	34	32	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1649.6	1649.6	1649.6	1649.6	1649.6
2.5°	1652.9	1648.5	1639.8	1650.7	1649.6
5°	1646.4	1643.1	1635.4	1646.4	1645.3
7.5°	1635.4	1633.2	1626.7	1638.7	1637.6
10°	1620.1	1616.8	1612.4	1625.6	1626.7
12.5°	1599.3	1598.2	1596.0	1610.3	1609.2
15°	1572.0	1572.0	1574.2	1591.7	1590.6
17.5°	1544.6	1544.6	1550.1	1569.8	1570.9
20°	1510.7	1512.9	1520.6	1544.6	1546.8
22.5°	1472.4	1474.6	1487.7	1518.4	1523.8
25°	1430.9	1438.5	1453.8	1485.5	1492.1
27.5°	1392.6	1393.7	1416.6	1451.6	1460.4
30°	1337.9	1353.2	1374.0	1414.4	1423.2
32.5°	1284.3	1299.6	1331.3	1375.1	1387.1
35°	1236.1	1248.2	1285.4	1333.5	1344.4
37.5°	1176.0	1195.7	1239.4	1289.7	1305.1
40°	1120.2	1137.7	1184.7	1241.6	1261.3
42.5°	1062.2	1081.9	1135.5	1196.8	1216.4
45°	1003.1	1025.0	1080.8	1148.6	1170.5
47.5°	938.6	965.9	1029.4	1098.3	1118.0
50°	876.2	904.7	972.5	1044.7	1064.4
52.5°	819.3	844.5	918.9	985.6	994.4
55°	755.9	782.2	860.9	912.3	910.1
57.5°	692.5	722.0	800.8	832.5	823.7
60°	633.4	660.7	739.5	746.1	727.5
62.5°	567.7	599.5	666.2	656.4	633.4
65°	506.5	537.1	595.1	567.7	547.0
67.5°	444.1	477.0	518.5	478.0	454.0
70°	382.9	422.3	437.6	393.8	374.1
72.5°	320.5	362.1	361.0	319.4	303.0
75°	261.4	298.6	288.8	249.4	237.4
77.5°	199.1	236.3	217.7	188.2	177.2
80°	141.1	176.1	152.1	129.1	121.4
82.5°	96.3	117.0	95.2	75.5	72.2
85°	50.3	60.2	43.8	33.9	31.7
87.5°	18.6	17.5	15.3	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)