

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: P219285

Luminaire Tested: **14AC-LD5-44-UNV-L835-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: P219285
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-L835-CD1-U
Description: ACCORD 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

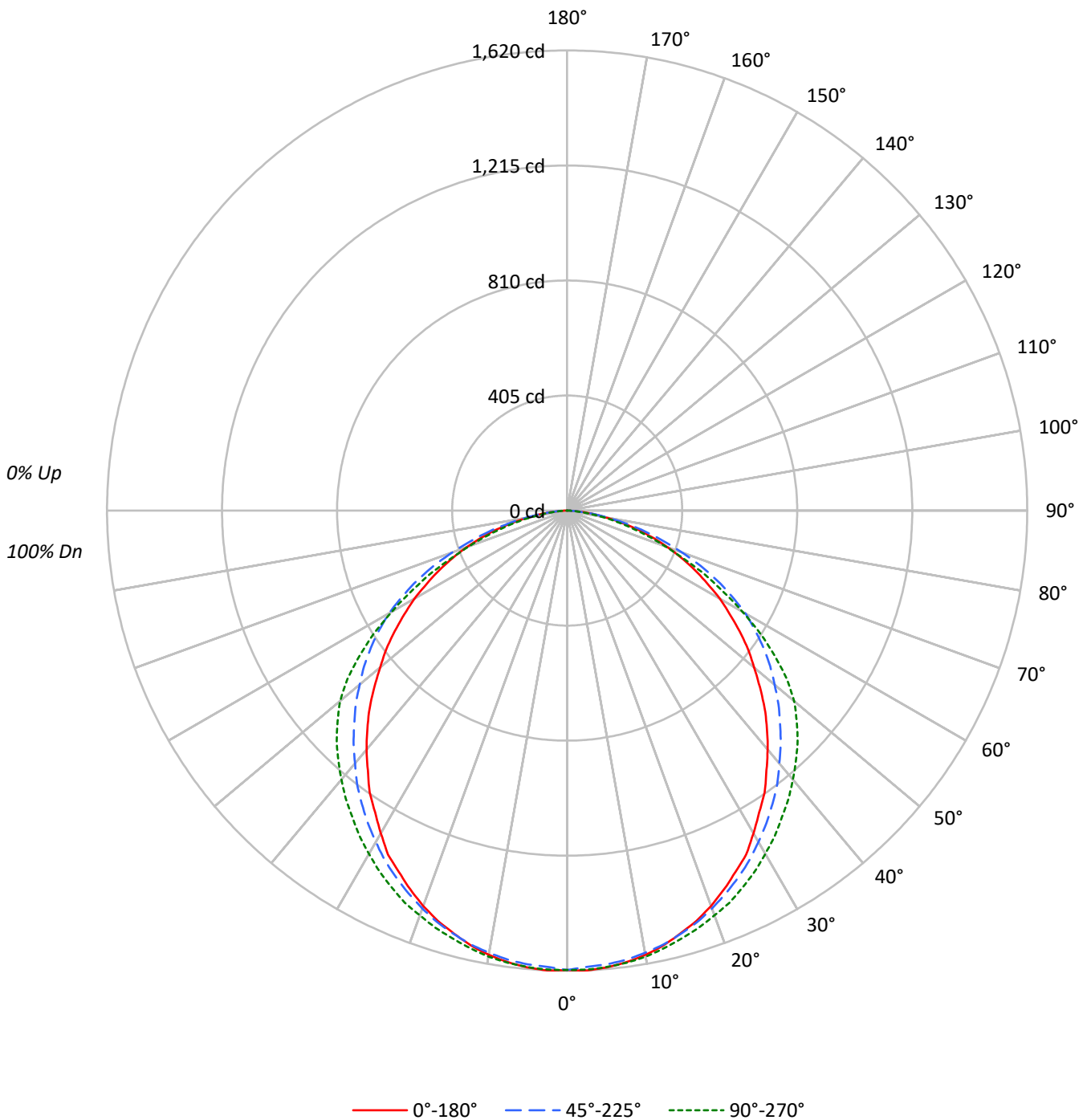
Lumens per Lamp: N/A
Luminaire Lumens: 4485.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 41.12
Input Voltage (V): NR
Input Current (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	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°	4352	4352	4352
5°	4351	4298	4319
10°	4321	4253	4282
15°	4265	4200	4231
20°	4203	4136	4190
25°	4117	4064	4150
30°	4018	3982	4099
35°	3913	3899	4047
40°	3779	3798	4008
45°	3652	3705	3970
50°	3492	3611	3903
55°	3357	3516	3663
60°	3203	3384	3272
65°	3001	3123	2811
70°	2764	2716	2264
75°	2437	2213	1762
80°	1877	1539	1177
85°	1184	659	448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.4
10°-20°	437.1	9.7
20°-30°	659.5	14.7
30°-40°	790.8	17.6
40°-50°	820.6	18.3
50°-60°	740.8	16.5
60°-70°	539.5	12.0
70°-80°	283.0	6.3
80°-90°	60.5	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°	1249.6	27.9
0°-40°	2040.4	45.5
0°-60°	3601.9	80.3
0°-90°	4485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1614	1611	1603	1614	1613	153
15°	1541	1541	1543	1560	1559	435
25°	1403	1410	1425	1456	1463	647
35°	1212	1224	1260	1307	1318	756
45°	984	1005	1060	1126	1148	757
55°	741	767	844	894	892	663
65°	497	527	583	557	536	491
75°	256	293	283	244	233	270
85°	49	59	43	33	31	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.3	1617.3	1617.3	1617.3	1617.3
2.5°	1620.5	1616.2	1607.6	1618.4	1617.3
5°	1614.1	1610.9	1603.3	1614.1	1613.0
7.5°	1603.3	1601.2	1594.8	1606.6	1605.5
10°	1588.3	1585.1	1580.8	1593.7	1594.8
12.5°	1568.0	1566.9	1564.7	1578.7	1577.6
15°	1541.1	1541.1	1543.3	1560.5	1559.4
17.5°	1514.3	1514.3	1519.7	1539.0	1540.1
20°	1481.1	1483.2	1490.7	1514.3	1516.5
22.5°	1443.6	1445.7	1458.6	1488.6	1494.0
25°	1402.8	1410.3	1425.3	1456.4	1462.9
27.5°	1365.3	1366.3	1388.9	1423.2	1431.8
30°	1311.6	1326.7	1347.0	1386.7	1395.3
32.5°	1259.1	1274.1	1305.2	1348.1	1359.9
35°	1211.9	1223.7	1260.2	1307.3	1318.1
37.5°	1152.9	1172.2	1215.1	1264.4	1279.5
40°	1098.2	1115.4	1161.5	1217.3	1236.6
42.5°	1041.4	1060.7	1113.2	1173.3	1192.6
45°	983.5	1004.9	1059.6	1126.1	1147.5
47.5°	920.2	947.0	1009.2	1076.8	1096.1
50°	859.1	886.9	953.4	1024.2	1043.5
52.5°	803.3	828.0	900.9	966.3	974.9
55°	741.1	766.8	844.0	894.4	892.3
57.5°	678.9	707.8	785.1	816.2	807.6
60°	621.0	647.8	725.0	731.4	713.2
62.5°	556.6	587.7	653.1	643.5	621.0
65°	496.6	526.6	583.4	556.6	536.2
67.5°	435.4	467.6	508.4	468.7	445.1
70°	375.4	414.0	429.0	386.1	366.8
72.5°	314.2	355.0	353.9	313.2	297.1
75°	256.3	292.8	283.1	244.5	232.7
77.5°	195.2	231.7	213.4	184.5	173.7
80°	138.3	172.7	149.1	126.6	119.0
82.5°	94.4	114.8	93.3	74.0	70.8
85°	49.3	59.0	42.9	33.2	31.1
87.5°	18.2	17.2	15.0	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)