

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: P219273

Luminaire Tested: **14AC-LD5-29-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: P219273
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-LD5-29-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: 2976.4 lumens
Efficiency: N/A
Efficacy: 121.3 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

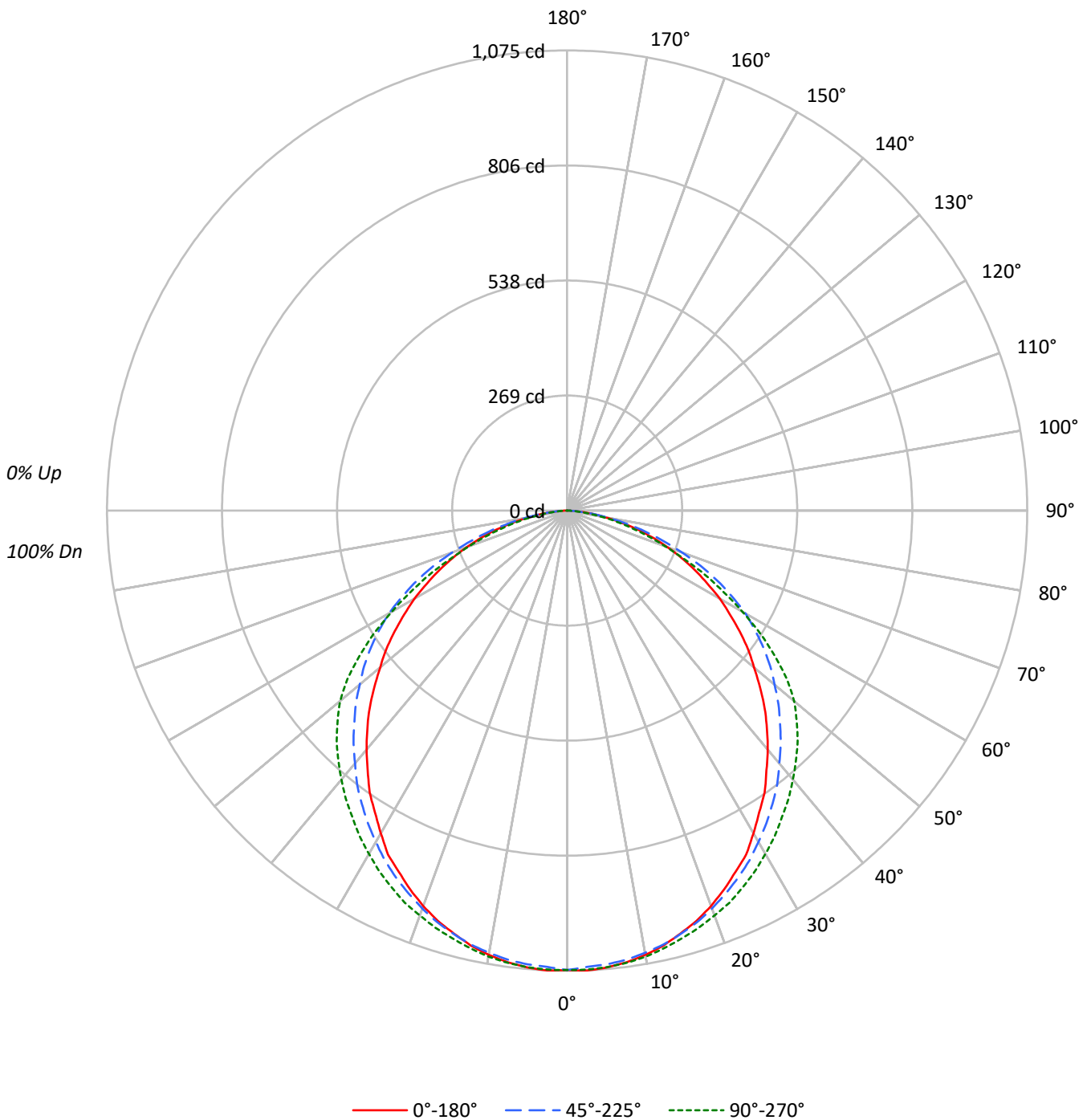
Input Watts (W): 24.53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2888	2888	2888
5°	2887	2852	2866
10°	2868	2823	2842
15°	2830	2787	2808
20°	2789	2745	2781
25°	2732	2697	2754
30°	2666	2643	2720
35°	2597	2587	2685
40°	2508	2521	2659
45°	2423	2459	2635
50°	2318	2396	2590
55°	2228	2333	2431
60°	2126	2245	2171
65°	1991	2073	1866
70°	1834	1802	1502
75°	1618	1469	1169
80°	1246	1021	781
85°	785	438	297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	3.4
10°-20°	290.1	9.7
20°-30°	437.7	14.7
30°-40°	524.8	17.6
40°-50°	544.6	18.3
50°-60°	491.6	16.5
60°-70°	358.1	12.0
70°-80°	187.8	6.3
80°-90°	40.2	1.4
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°	829.3	27.9
0°-40°	1354.1	45.5
0°-60°	2390.3	80.3
0°-90°	2976.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2976.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1071	1069	1064	1071	1070	102
15°	1023	1023	1024	1036	1035	289
25°	931	936	946	966	971	429
35°	804	812	836	868	875	502
45°	653	667	703	747	762	502
55°	492	509	560	594	592	440
65°	330	350	387	369	356	326
75°	170	194	188	162	154	179
85°	33	39	28	22	21	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.3	1073.3	1073.3	1073.3	1073.3
2.5°	1075.4	1072.6	1066.9	1074.0	1073.3
5°	1071.2	1069.0	1064.0	1071.2	1070.4
7.5°	1064.0	1062.6	1058.3	1066.2	1065.5
10°	1054.1	1051.9	1049.1	1057.6	1058.3
12.5°	1040.6	1039.8	1038.4	1047.7	1047.0
15°	1022.8	1022.8	1024.2	1035.6	1034.9
17.5°	1005.0	1005.0	1008.5	1021.3	1022.0
20°	982.9	984.3	989.3	1005.0	1006.4
22.5°	958.0	959.4	968.0	987.9	991.4
25°	930.9	935.9	945.9	966.5	970.8
27.5°	906.0	906.7	921.7	944.5	950.2
30°	870.4	880.4	893.9	920.3	926.0
32.5°	835.6	845.5	866.2	894.6	902.5
35°	804.3	812.1	836.3	867.6	874.7
37.5°	765.1	777.9	806.4	839.1	849.1
40°	728.8	740.2	770.8	807.8	820.6
42.5°	691.1	703.9	738.8	778.6	791.4
45°	652.7	666.9	703.2	747.3	761.6
47.5°	610.7	628.5	669.7	714.6	727.4
50°	570.1	588.6	632.7	679.7	692.5
52.5°	533.1	549.5	597.9	641.3	647.0
55°	491.8	508.9	560.1	593.6	592.2
57.5°	450.5	469.7	521.0	541.6	535.9
60°	412.1	429.9	481.1	485.4	473.3
62.5°	369.4	390.0	433.4	427.0	412.1
65°	329.5	349.5	387.2	369.4	355.9
67.5°	289.0	310.3	337.4	311.0	295.4
70°	249.1	274.7	284.7	256.2	243.4
72.5°	208.5	235.6	234.9	207.8	197.1
75°	170.1	194.3	187.9	162.3	154.4
77.5°	129.5	153.7	141.6	122.4	115.3
80°	91.8	114.6	98.9	84.0	79.0
82.5°	62.6	76.2	61.9	49.1	47.0
85°	32.7	39.1	28.5	22.1	20.6
87.5°	12.1	11.4	10.0	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)