

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: P219274

Luminaire Tested: **14AC-LD5-29-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: P219274
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-L840-CD1-U
Description: ACCORD 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

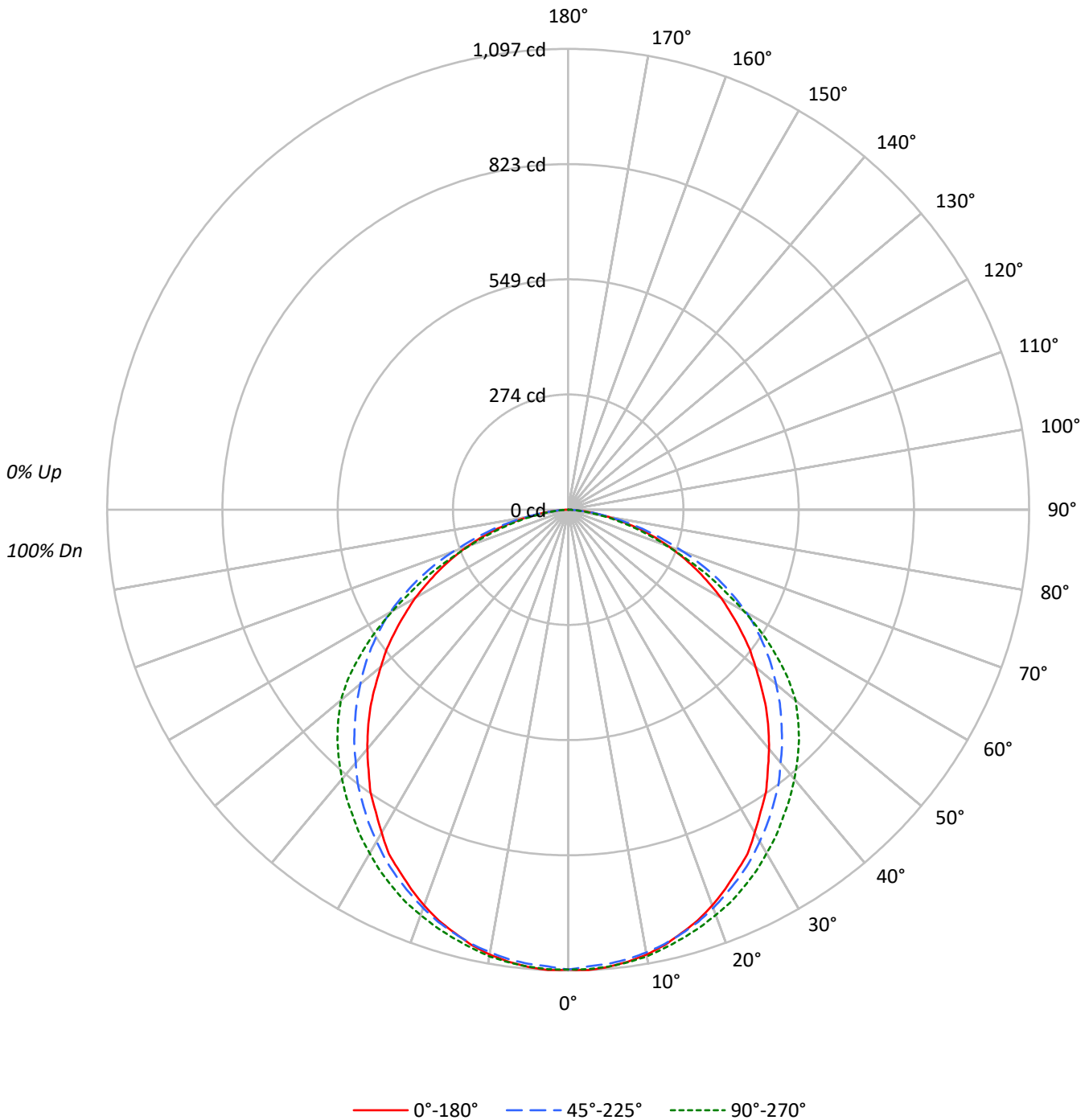
Lumens per Lamp: N/A
Luminaire Lumens: 3035.9 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2946	2946	2946
5°	2945	2909	2924
10°	2925	2879	2899
15°	2887	2843	2864
20°	2845	2800	2836
25°	2787	2751	2809
30°	2720	2696	2775
35°	2648	2639	2739
40°	2558	2571	2713
45°	2472	2508	2687
50°	2364	2444	2642
55°	2272	2380	2480
60°	2168	2291	2215
65°	2031	2114	1903
70°	1871	1838	1533
75°	1650	1499	1193
80°	1270	1042	797
85°	802	445	304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.4
10°-20°	295.9	9.7
20°-30°	446.4	14.7
30°-40°	535.3	17.6
40°-50°	555.5	18.3
50°-60°	501.5	16.5
60°-70°	365.2	12.0
70°-80°	191.6	6.3
80°-90°	41.0	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°	845.9	27.9
0°-40°	1381.2	45.5
0°-60°	2438.1	80.3
0°-90°	3035.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3035.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1093	1090	1085	1093	1092	104
15°	1043	1043	1045	1056	1056	294
25°	950	955	965	986	990	438
35°	820	828	853	885	892	512
45°	666	680	717	762	777	513
55°	502	519	571	606	604	448
65°	336	356	395	377	363	333
75°	174	198	192	166	158	182
85°	33	40	29	22	21	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1096.9	1094.0	1088.2	1095.5	1094.8
5°	1092.6	1090.4	1085.3	1092.6	1091.9
7.5°	1085.3	1083.9	1079.5	1087.5	1086.8
10°	1075.2	1073.0	1070.1	1078.8	1079.5
12.5°	1061.4	1060.6	1059.2	1068.6	1067.9
15°	1043.2	1043.2	1044.7	1056.3	1055.6
17.5°	1025.1	1025.1	1028.7	1041.8	1042.5
20°	1002.6	1004.0	1009.1	1025.1	1026.5
22.5°	977.1	978.6	987.3	1007.6	1011.3
25°	949.6	954.6	964.8	985.9	990.2
27.5°	924.2	924.9	940.1	963.4	969.2
30°	887.9	898.0	911.8	938.7	944.5
32.5°	852.3	862.4	883.5	912.5	920.5
35°	820.3	828.3	853.0	885.0	892.2
37.5°	780.4	793.5	822.5	855.9	866.1
40°	743.4	755.0	786.2	824.0	837.0
42.5°	704.9	718.0	753.6	794.2	807.3
45°	665.7	680.2	717.3	762.3	776.8
47.5°	622.9	641.0	683.1	728.9	741.9
50°	581.5	600.4	645.4	693.3	706.4
52.5°	543.7	560.4	609.8	654.1	659.9
55°	501.6	519.1	571.3	605.5	604.0
57.5°	459.5	479.1	531.4	552.5	546.7
60°	420.3	438.5	490.8	495.1	482.8
62.5°	376.8	397.8	442.1	435.6	420.3
65°	336.1	356.4	394.9	376.8	363.0
67.5°	294.7	316.5	344.1	317.2	301.3
70°	254.1	280.2	290.4	261.3	248.3
72.5°	212.7	240.3	239.6	212.0	201.1
75°	173.5	198.2	191.7	165.5	157.5
77.5°	132.1	156.8	144.5	124.9	117.6
80°	93.6	116.9	100.9	85.7	80.6
82.5°	63.9	77.7	63.2	50.1	47.9
85°	33.4	39.9	29.0	22.5	21.1
87.5°	12.3	11.6	10.2	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)