

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: P219268

Luminaire Tested: **14AC-LD5-25-UNV-L830-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: P219268
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-LD5-25-UNV-L830-CD1-U
Description: ACCORD 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

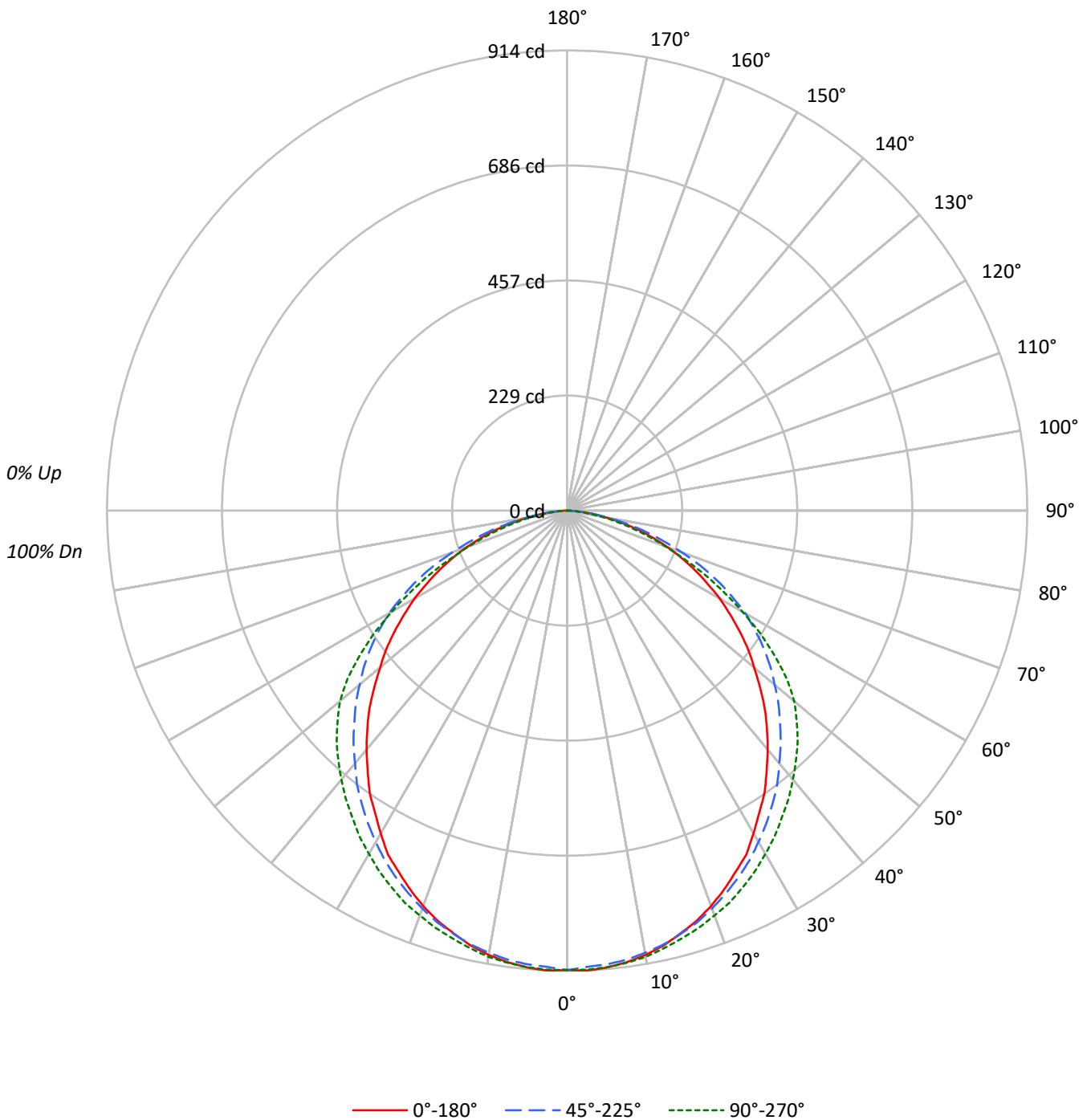
Lumens per Lamp: N/A
Luminaire Lumens: 2530.8 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 20.46
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°	2456	2456	2456
5°	2455	2425	2437
10°	2438	2400	2416
15°	2407	2370	2387
20°	2372	2334	2364
25°	2323	2294	2342
30°	2267	2247	2313
35°	2208	2200	2284
40°	2132	2143	2261
45°	2061	2091	2240
50°	1971	2038	2202
55°	1894	1984	2067
60°	1808	1909	1846
65°	1693	1762	1587
70°	1559	1533	1278
75°	1375	1249	994
80°	1060	868	665
85°	668	372	254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	3.4
10°-20°	246.7	9.7
20°-30°	372.1	14.7
30°-40°	446.2	17.6
40°-50°	463.1	18.3
50°-60°	418.0	16.5
60°-70°	304.5	12.0
70°-80°	159.7	6.3
80°-90°	34.2	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°	705.2	27.9
0°-40°	1151.4	45.5
0°-60°	2032.5	80.3
0°-90°	2530.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2530.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	911	909	905	911	910	86
15°	870	870	871	880	880	245
25°	792	796	804	822	826	365
35°	684	690	711	738	744	426
45°	555	567	598	635	648	427
55°	418	433	476	505	504	374
65°	280	297	329	314	303	277
75°	145	165	160	138	131	152
85°	28	33	24	19	18	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.6	912.6	912.6	912.6	912.6
2.5°	914.4	912.0	907.2	913.2	912.6
5°	910.8	909.0	904.7	910.8	910.2
7.5°	904.7	903.5	899.9	906.6	906.0
10°	896.3	894.5	892.0	899.3	899.9
12.5°	884.8	884.2	883.0	890.8	890.2
15°	869.6	869.6	870.9	880.5	879.9
17.5°	854.5	854.5	857.5	868.4	869.0
20°	835.8	837.0	841.2	854.5	855.7
22.5°	814.6	815.8	823.0	840.0	843.0
25°	791.6	795.8	804.3	821.8	825.5
27.5°	770.4	771.0	783.7	803.1	807.9
30°	740.1	748.6	760.1	782.5	787.3
32.5°	710.5	719.0	736.5	760.7	767.4
35°	683.9	690.5	711.1	737.7	743.8
37.5°	650.6	661.5	685.7	713.5	722.0
40°	619.7	629.4	655.4	686.9	697.8
42.5°	587.6	598.5	628.2	662.1	673.0
45°	555.0	567.1	597.9	635.4	647.5
47.5°	519.2	534.4	569.5	607.6	618.5
50°	484.8	500.5	538.0	577.9	588.8
52.5°	453.3	467.2	508.4	545.3	550.1
55°	418.2	432.7	476.3	504.7	503.5
57.5°	383.1	399.4	443.0	460.5	455.7
60°	350.4	365.5	409.1	412.7	402.4
62.5°	314.1	331.6	368.6	363.1	350.4
65°	280.2	297.1	329.2	314.1	302.6
67.5°	245.7	263.9	286.9	264.5	251.2
70°	211.8	233.6	242.1	217.9	207.0
72.5°	177.3	200.3	199.7	176.7	167.6
75°	144.6	165.2	159.8	138.0	131.3
77.5°	110.1	130.7	120.4	104.1	98.0
80°	78.1	97.4	84.1	71.4	67.2
82.5°	53.3	64.8	52.7	41.8	39.9
85°	27.8	33.3	24.2	18.8	17.6
87.5°	10.3	9.7	8.5	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)