

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: P219264

Luminaire Tested: **14AC-LD5-20-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: P219264  
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-LD5-20-UNV-L830-CD1-U  
Description: ACCORD 1x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

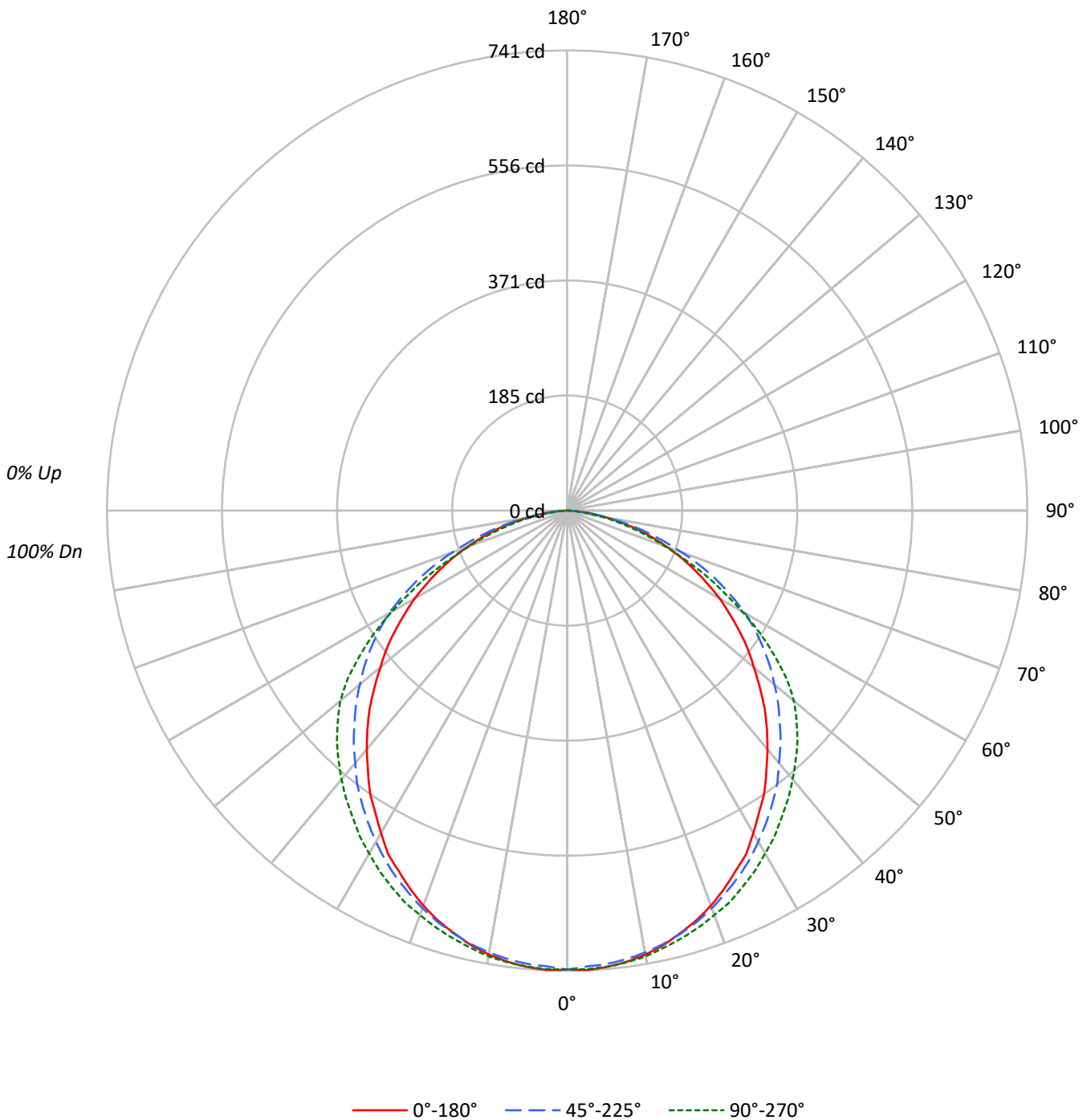
Lumens per Lamp: N/A  
Luminaire Lumens: 2049.7 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 16.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1989	1989	1989
5°	1988	1964	1974
10°	1975	1944	1957
15°	1949	1919	1934
20°	1921	1890	1915
25°	1882	1858	1897
30°	1836	1820	1873
35°	1788	1782	1849
40°	1727	1736	1831
45°	1669	1693	1814
50°	1596	1650	1784
55°	1534	1607	1674
60°	1464	1546	1495
65°	1371	1427	1285
70°	1263	1241	1034
75°	1114	1012	806
80°	858	703	538
85°	540	301	205



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.9	3.4
10°-20°	199.8	9.7
20°-30°	301.4	14.7
30°-40°	361.4	17.6
40°-50°	375.0	18.3
50°-60°	338.6	16.5
60°-70°	246.6	12.0
70°-80°	129.3	6.3
80°-90°	27.7	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°	571.1	27.9
0°-40°	932.5	45.5
0°-60°	1646.1	80.3
0°-90°	2049.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2049.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	738	736	733	738	737	70
15°	704	704	705	713	713	199
25°	641	644	651	666	669	296
35°	554	559	576	598	602	345
45°	450	459	484	515	524	346
55°	339	350	386	409	408	303
65°	227	241	267	254	245	225
75°	117	134	129	112	106	123
85°	22	27	20	15	14	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	739.1	739.1	739.1	739.1	739.1
2.5°	740.6	738.6	734.7	739.6	739.1
5°	737.7	736.2	732.8	737.7	737.2
7.5°	732.8	731.8	728.8	734.2	733.7
10°	725.9	724.4	722.5	728.3	728.8
12.5°	716.6	716.1	715.1	721.5	721.0
15°	704.3	704.3	705.3	713.2	712.7
17.5°	692.1	692.1	694.5	703.4	703.8
20°	676.9	677.9	681.3	692.1	693.1
22.5°	659.7	660.7	666.6	680.3	682.8
25°	641.1	644.5	651.4	665.6	668.6
27.5°	623.9	624.4	634.7	650.4	654.3
30°	599.4	606.3	615.6	633.8	637.7
32.5°	575.4	582.3	596.5	616.1	621.5
35°	553.9	559.2	575.9	597.5	602.4
37.5°	526.9	535.7	555.3	577.9	584.7
40°	501.9	509.7	530.8	556.3	565.1
42.5°	475.9	484.7	508.8	536.2	545.0
45°	449.5	459.3	484.3	514.6	524.4
47.5°	420.5	432.8	461.2	492.1	500.9
50°	392.6	405.3	435.7	468.1	476.9
52.5°	367.1	378.4	411.7	441.6	445.5
55°	338.7	350.5	385.7	408.8	407.8
57.5°	310.3	323.5	358.8	373.0	369.1
60°	283.8	296.0	331.3	334.3	325.9
62.5°	254.4	268.6	298.5	294.1	283.8
65°	226.9	240.7	266.6	254.4	245.1
67.5°	199.0	213.7	232.3	214.2	203.4
70°	171.5	189.2	196.1	176.5	167.6
72.5°	143.6	162.2	161.7	143.1	135.8
75°	117.1	133.8	129.4	111.8	106.4
77.5°	89.2	105.9	97.5	84.3	79.4
80°	63.2	78.9	68.1	57.8	54.4
82.5°	43.1	52.4	42.6	33.8	32.3
85°	22.5	27.0	19.6	15.2	14.2
87.5°	8.3	7.8	6.9	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)