

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: P225574

Luminaire Tested: **14AC-LD5-44-SQP-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: P225574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14AC-LD5-44-SQP-UNV-L835-CD1-U  
Description: METALUX Accord 1X4 LED TROFFER WITH SQP LENS  
Light Source: (84)3500K CCT, 85 CRI LEDs  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2952.0 lumens  
Efficiency: N/A  
Efficacy: 71.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')  
CIE Type: Direct

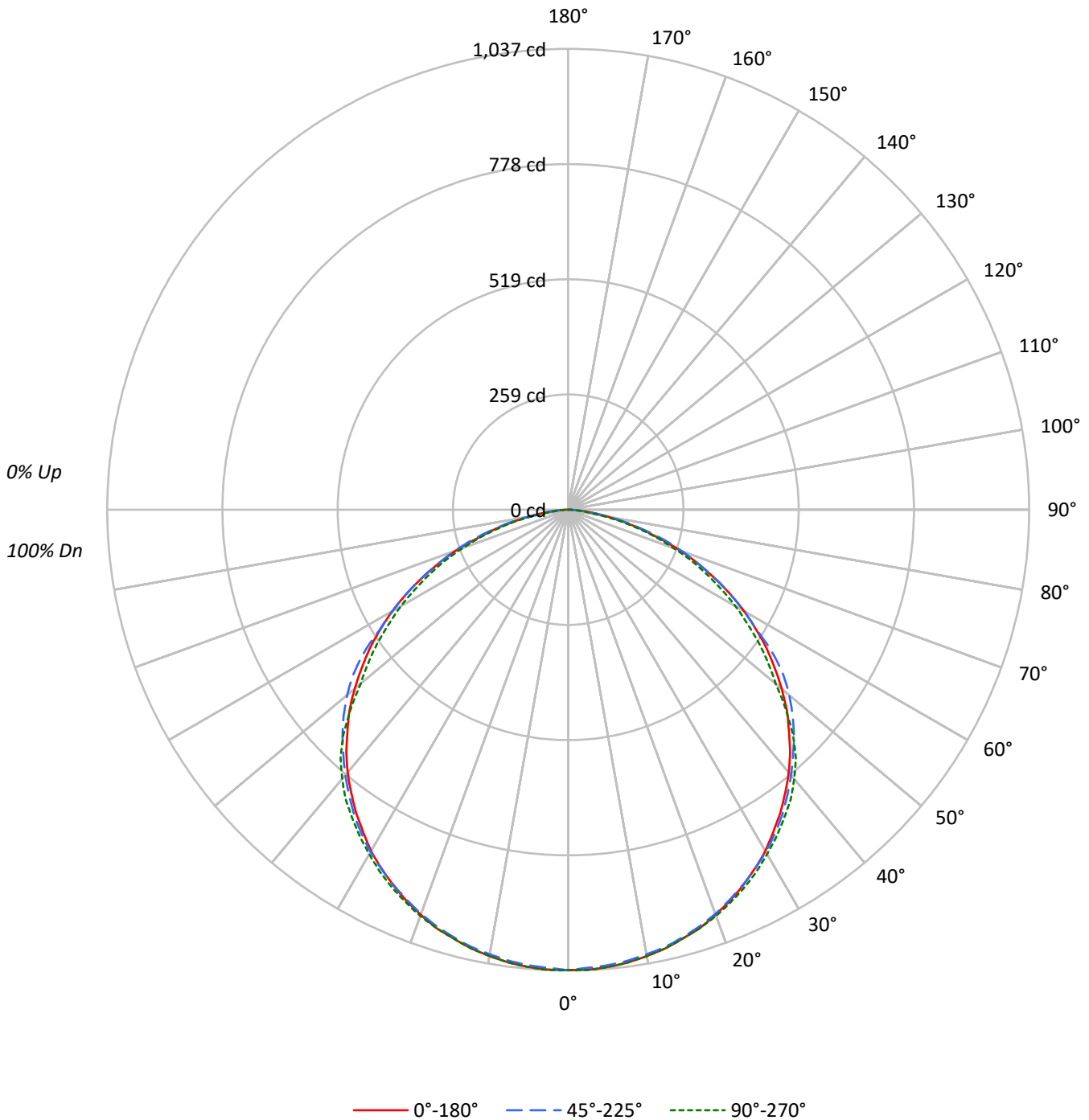
Input Watts (W): 41.12  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2909	2909	2909
5°	2911	2900	2911
10°	2908	2897	2908
15°	2904	2895	2904
20°	2898	2892	2907
25°	2887	2884	2906
30°	2876	2882	2902
35°	2852	2876	2903
40°	2829	2859	2899
45°	2787	2851	2839
50°	2739	2835	2664
55°	2668	2746	2565
60°	2566	2561	2443
65°	2405	2419	2286
70°	2208	2233	2069
75°	1855	1942	1768
80°	1472	1504	1245
85°	967	838	709



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	3.3
10°-20°	282.0	9.6
20°-30°	430.5	14.6
30°-40°	525.3	17.8
40°-50°	549.3	18.6
50°-60°	486.3	16.5
60°-70°	358.1	12.1
70°-80°	185.4	6.3
80°-90°	36.9	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°	810.6	27.5
0°-40°	1335.9	45.3
0°-60°	2371.5	80.3
0°-90°	2952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1033	1033	1029	1033	1033	98
15°	999	999	996	1000	999	282
25°	932	932	931	937	938	430
35°	832	834	839	847	847	520
45°	702	708	718	724	715	542
55°	545	556	561	532	524	486
65°	362	384	364	350	344	359
75°	171	183	179	168	163	183
85°	30	32	26	23	22	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1035.9	1035.9	1035.9	1035.9	1035.9
2.5°	1035.9	1035.9	1031.9	1035.9	1036.9
5°	1032.9	1032.9	1028.9	1032.9	1032.9
7.5°	1027.9	1026.9	1023.9	1027.9	1027.9
10°	1019.9	1019.9	1015.9	1020.9	1019.9
12.5°	1010.9	1009.9	1007.9	1011.9	1010.9
15°	998.9	998.9	995.9	999.9	998.9
17.5°	986.9	985.9	982.9	986.9	986.9
20°	969.9	968.9	967.9	971.9	972.9
22.5°	951.9	950.9	949.9	955.9	955.9
25°	931.9	931.9	930.9	936.9	937.9
27.5°	909.9	909.9	910.9	918.9	917.9
30°	886.9	886.9	888.9	894.9	894.9
32.5°	858.9	860.9	864.9	871.9	871.9
35°	831.9	833.9	838.9	846.9	846.9
37.5°	801.9	804.9	809.9	819.9	821.9
40°	771.9	773.9	779.9	790.9	790.9
42.5°	738.9	740.9	748.9	759.9	757.9
45°	701.9	707.9	717.9	723.9	714.9
47.5°	666.9	670.9	684.9	677.9	662.9
50°	626.9	634.9	648.9	623.9	609.9
52.5°	585.9	594.9	609.9	574.9	566.9
55°	545.0	556.0	561.0	532.0	524.0
57.5°	501.0	513.0	503.0	486.0	478.0
60°	457.0	471.0	456.0	440.0	435.0
62.5°	411.0	427.0	410.0	396.0	389.0
65°	362.0	384.0	364.0	350.0	344.0
67.5°	314.0	337.0	316.0	304.0	300.0
70°	269.0	282.0	272.0	260.0	252.0
72.5°	215.0	228.0	226.0	213.0	208.0
75°	171.0	183.0	179.0	168.0	163.0
77.5°	127.0	140.0	136.0	123.0	121.0
80°	91.0	100.0	93.0	81.0	77.0
82.5°	57.0	64.0	55.0	46.0	44.0
85°	30.0	32.0	26.0	23.0	22.0
87.5°	10.0	11.0	11.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)