

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: P225565

Luminaire Tested: **14AC-LD5-35-SQP-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: P225565
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-LD5-35-SQP-UNV-L830-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH SQP LENS
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2387.9 lumens
Efficiency: N/A
Efficacy: 75.9 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

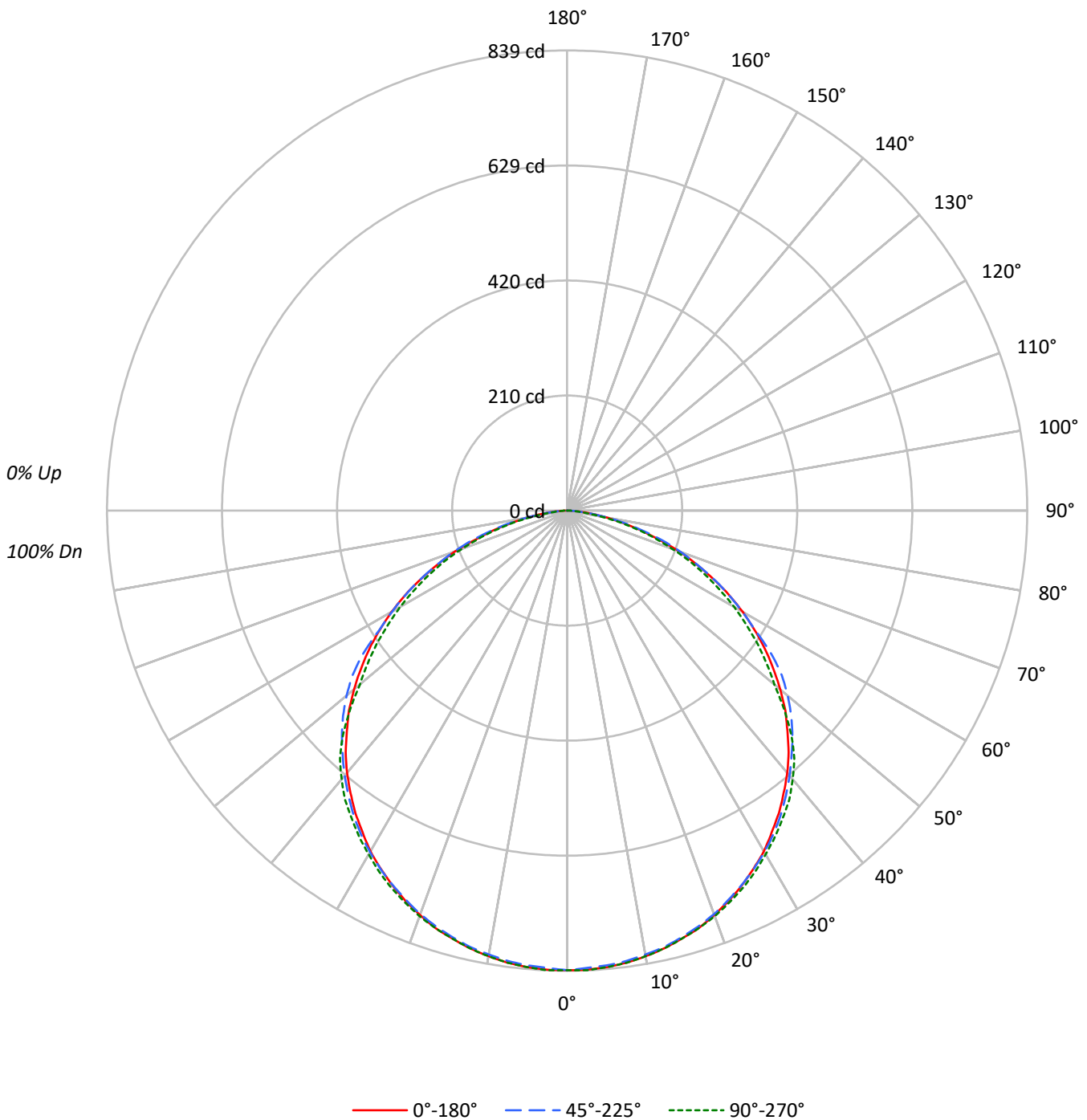
Input Watts (W): 31.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2353	2353	2353
5°	2355	2346	2355
10°	2352	2343	2352
15°	2349	2342	2349
20°	2345	2340	2352
25°	2335	2333	2351
30°	2326	2332	2347
35°	2307	2326	2348
40°	2289	2313	2345
45°	2255	2306	2296
50°	2215	2293	2155
55°	2158	2222	2075
60°	2076	2071	1976
65°	1945	1956	1848
70°	1786	1806	1673
75°	1500	1571	1430
80°	1190	1216	1007
85°	783	677	573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	3.3
10°-20°	228.1	9.6
20°-30°	348.3	14.6
30°-40°	424.9	17.8
40°-50°	444.3	18.6
50°-60°	393.4	16.5
60°-70°	289.7	12.1
70°-80°	150.0	6.3
80°-90°	29.9	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°	655.7	27.5
0°-40°	1080.6	45.3
0°-60°	1918.4	80.3
0°-90°	2387.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2387.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	836	836	832	836	836	79
15°	808	808	806	809	808	228
25°	754	754	753	758	759	347
35°	673	675	679	685	685	421
45°	568	573	581	586	578	438
55°	441	450	454	430	424	393
65°	293	311	294	283	278	290
75°	138	148	145	136	132	148
85°	24	26	21	19	18	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	838.0	838.0	838.0	838.0	838.0
2.5°	838.0	838.0	834.7	838.0	838.8
5°	835.5	835.5	832.3	835.5	835.5
7.5°	831.5	830.7	828.3	831.5	831.5
10°	825.0	825.0	821.8	825.8	825.0
12.5°	817.7	816.9	815.3	818.6	817.7
15°	808.0	808.0	805.6	808.8	808.0
17.5°	798.3	797.5	795.1	798.3	798.3
20°	784.6	783.8	783.0	786.2	787.0
22.5°	770.0	769.2	768.4	773.3	773.3
25°	753.8	753.8	753.0	757.9	758.7
27.5°	736.1	736.1	736.9	743.3	742.5
30°	717.4	717.4	719.1	723.9	723.9
32.5°	694.8	696.4	699.7	705.3	705.3
35°	673.0	674.6	678.6	685.1	685.1
37.5°	648.7	651.1	655.2	663.3	664.9
40°	624.4	626.0	630.9	639.8	639.8
42.5°	597.7	599.4	605.8	614.7	613.1
45°	567.8	572.7	580.8	585.6	578.3
47.5°	539.5	542.7	554.1	548.4	536.3
50°	507.1	513.6	524.9	504.7	493.4
52.5°	474.0	481.3	493.4	465.1	458.6
55°	440.8	449.7	453.8	430.3	423.8
57.5°	405.2	414.9	406.9	393.1	386.6
60°	369.6	381.0	368.8	355.9	351.8
62.5°	332.4	345.4	331.6	320.3	314.6
65°	292.8	310.6	294.4	283.1	278.2
67.5°	254.0	272.6	255.6	245.9	242.7
70°	217.6	228.1	220.0	210.3	203.8
72.5°	173.9	184.4	182.8	172.3	168.2
75°	138.3	148.0	144.8	135.9	131.8
77.5°	102.7	113.2	110.0	99.5	97.9
80°	73.6	80.9	75.2	65.5	62.3
82.5°	46.1	51.8	44.5	37.2	35.6
85°	24.3	25.9	21.0	18.6	17.8
87.5°	8.1	8.9	8.9	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)