

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: P225567

Luminaire Tested: **14AC-LD5-35-SQP-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: P225567
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-L840-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH SQP LENS
Light Source: (84)4000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2458.4 lumens
Efficiency: N/A
Efficacy: 78.1 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

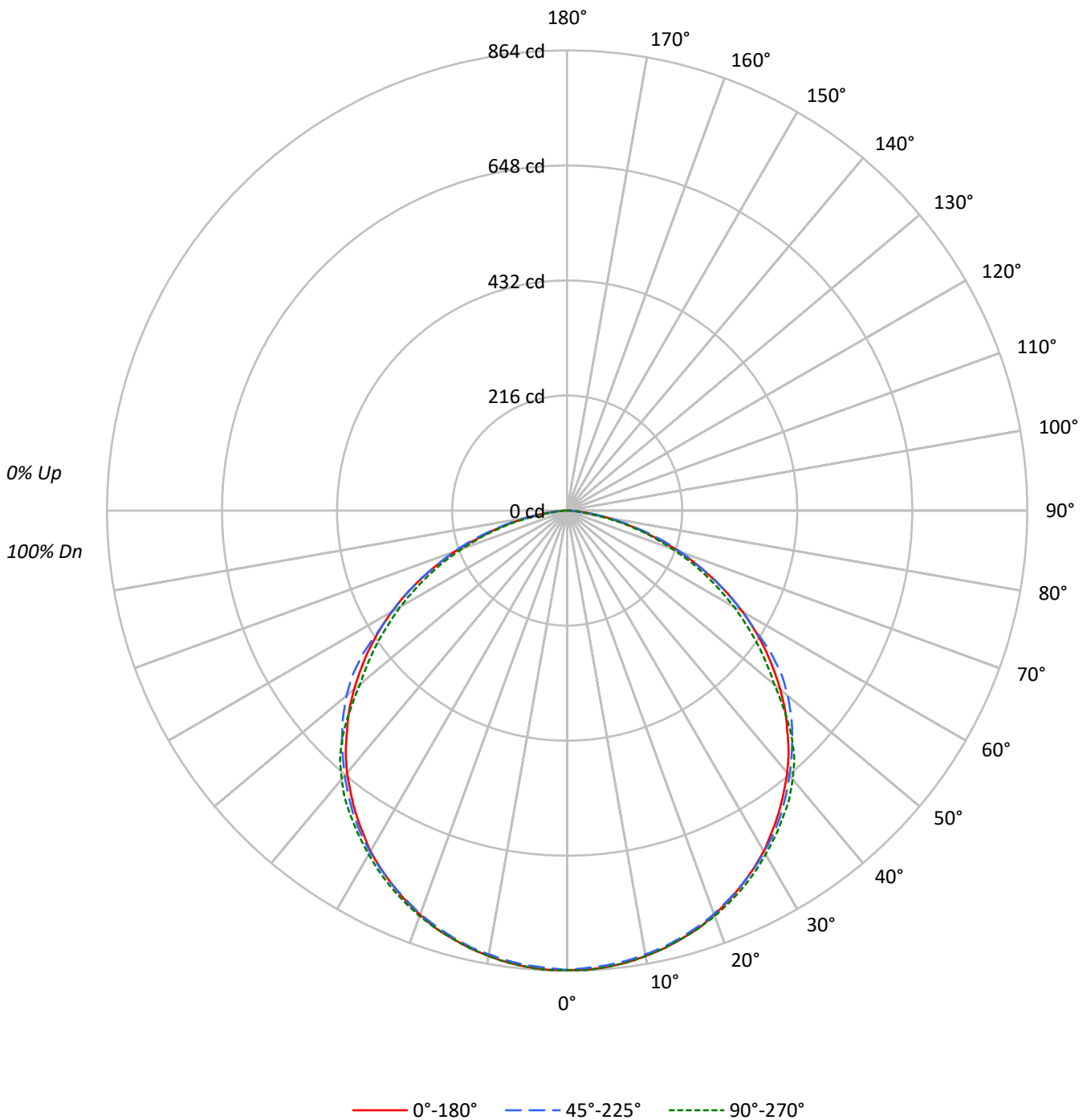
Input Watts (W): 31.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2422	2422	2422
5°	2425	2415	2425
10°	2422	2412	2422
15°	2418	2411	2418
20°	2414	2409	2421
25°	2405	2402	2420
30°	2395	2400	2417
35°	2375	2395	2418
40°	2356	2381	2415
45°	2321	2374	2364
50°	2281	2361	2219
55°	2222	2287	2136
60°	2137	2132	2034
65°	2003	2014	1903
70°	1839	1860	1722
75°	1545	1618	1472
80°	1226	1252	1037
85°	805	699	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	3.3
10°-20°	234.8	9.6
20°-30°	358.6	14.6
30°-40°	437.5	17.8
40°-50°	457.5	18.6
50°-60°	405.0	16.5
60°-70°	298.2	12.1
70°-80°	154.4	6.3
80°-90°	30.8	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°	675.1	27.5
0°-40°	1112.5	45.3
0°-60°	1975.0	80.3
0°-90°	2458.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2458.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	860	860	857	860	860	82
15°	832	832	829	833	832	235
25°	776	776	775	780	781	358
35°	693	694	699	705	705	433
45°	585	590	598	603	595	451
55°	454	463	467	443	436	405
65°	301	320	303	291	286	299
75°	142	152	149	140	136	152
85°	25	27	22	19	18	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	862.7	862.7	862.7	862.7	862.7
2.5°	862.7	862.7	859.3	862.7	863.5
5°	860.2	860.2	856.9	860.2	860.2
7.5°	856.0	855.2	852.7	856.0	856.0
10°	849.4	849.4	846.0	850.2	849.4
12.5°	841.9	841.0	839.4	842.7	841.9
15°	831.9	831.9	829.4	832.7	831.9
17.5°	821.9	821.0	818.5	821.9	821.9
20°	807.7	806.9	806.1	809.4	810.2
22.5°	792.7	791.9	791.1	796.1	796.1
25°	776.1	776.1	775.2	780.2	781.1
27.5°	757.8	757.8	758.6	765.3	764.4
30°	738.6	738.6	740.3	745.3	745.3
32.5°	715.3	717.0	720.3	726.1	726.1
35°	692.8	694.5	698.6	705.3	705.3
37.5°	667.8	670.3	674.5	682.8	684.5
40°	642.8	644.5	649.5	658.7	658.7
42.5°	615.4	617.0	623.7	632.9	631.2
45°	584.6	589.6	597.9	602.9	595.4
47.5°	555.4	558.7	570.4	564.6	552.1
50°	522.1	528.8	540.4	519.6	507.9
52.5°	488.0	495.5	507.9	478.8	472.1
55°	453.8	463.0	467.1	443.0	436.3
57.5°	417.2	427.2	418.8	404.7	398.0
60°	380.5	392.2	379.7	366.4	362.2
62.5°	342.2	355.6	341.4	329.8	323.9
65°	301.4	319.8	303.1	291.4	286.4
67.5°	261.5	280.6	263.1	253.1	249.8
70°	224.0	234.8	226.5	216.5	209.8
72.5°	179.0	189.9	188.2	177.4	173.2
75°	142.4	152.4	149.1	139.9	135.7
77.5°	105.8	116.6	113.2	102.4	100.8
80°	75.8	83.3	77.4	67.4	64.1
82.5°	47.5	53.3	45.8	38.3	36.6
85°	25.0	26.6	21.7	19.2	18.3
87.5°	8.3	9.2	9.2	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)