

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: P225562

Luminaire Tested: **14AC-LD5-29-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: P225562
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-LD5-29-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: 1958.8 lumens
Efficiency: N/A
Efficacy: 78.4 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

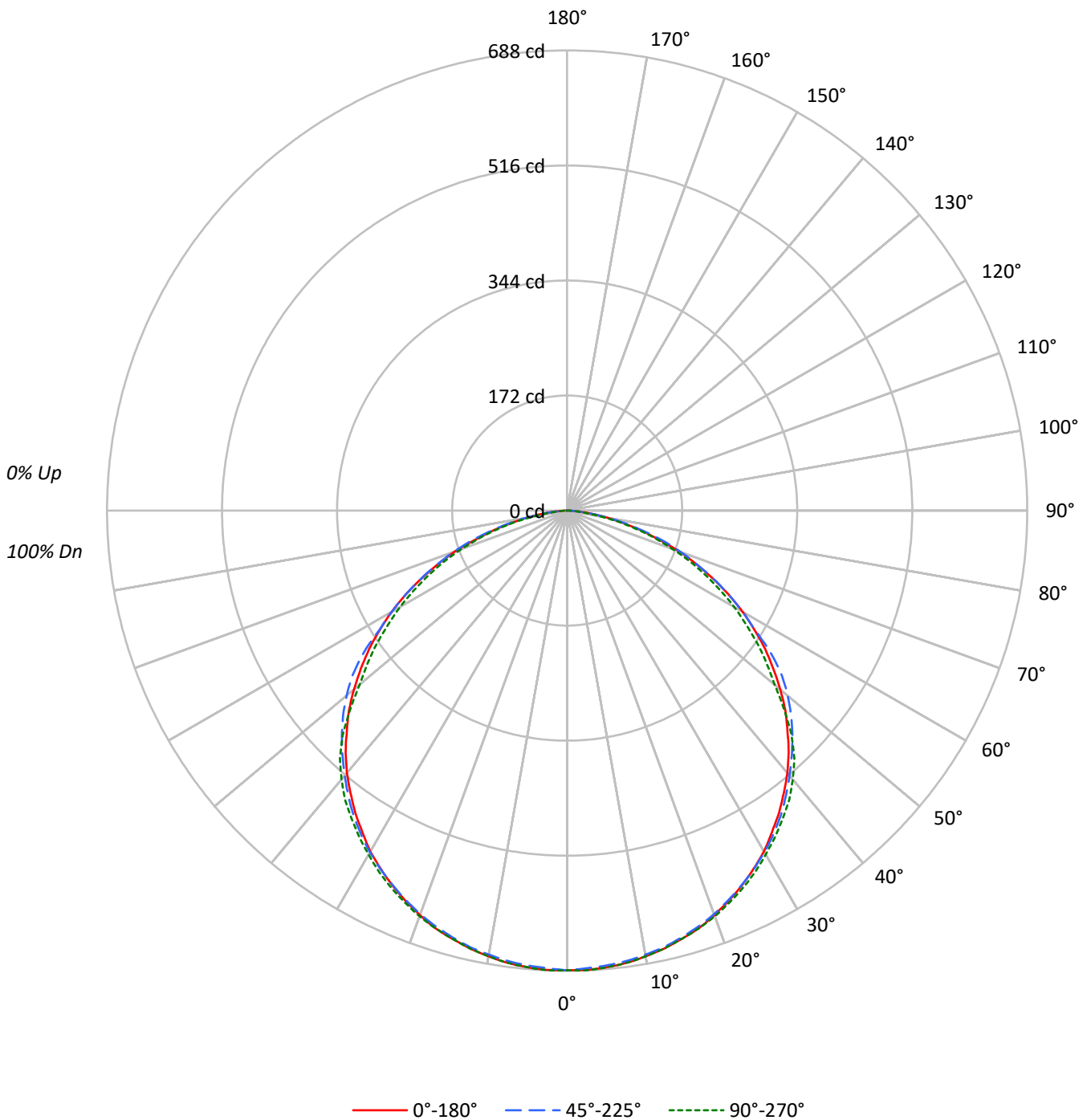
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1930	1930	1930
5°	1932	1924	1932
10°	1930	1922	1930
15°	1927	1921	1927
20°	1923	1919	1929
25°	1916	1914	1928
30°	1908	1912	1925
35°	1892	1908	1926
40°	1877	1897	1924
45°	1850	1892	1884
50°	1817	1881	1768
55°	1770	1822	1702
60°	1703	1699	1621
65°	1596	1605	1516
70°	1465	1482	1373
75°	1231	1289	1173
80°	977	998	826
85°	641	557	470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	3.3
10°-20°	187.1	9.6
20°-30°	285.7	14.6
30°-40°	348.6	17.8
40°-50°	364.5	18.6
50°-60°	322.7	16.5
60°-70°	237.6	12.1
70°-80°	123.0	6.3
80°-90°	24.5	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°	537.9	27.5
0°-40°	886.4	45.3
0°-60°	1573.6	80.3
0°-90°	1958.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1958.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	685	685	683	685	685	65
15°	663	663	661	664	663	187
25°	618	618	618	622	622	285
35°	552	553	557	562	562	345
45°	466	470	476	480	474	360
55°	362	369	372	353	348	323
65°	240	255	242	232	228	238
75°	114	121	119	112	108	121
85°	20	21	17	15	15	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.4	687.4	687.4	687.4	687.4
2.5°	687.4	687.4	684.7	687.4	688.0
5°	685.4	685.4	682.7	685.4	685.4
7.5°	682.1	681.4	679.4	682.1	682.1
10°	676.8	676.8	674.1	677.4	676.8
12.5°	670.8	670.1	668.8	671.4	670.8
15°	662.8	662.8	660.8	663.5	662.8
17.5°	654.9	654.2	652.2	654.9	654.9
20°	643.6	642.9	642.3	644.9	645.6
22.5°	631.6	631.0	630.3	634.3	634.3
25°	618.4	618.4	617.7	621.7	622.4
27.5°	603.8	603.8	604.4	609.7	609.1
30°	588.5	588.5	589.8	593.8	593.8
32.5°	569.9	571.3	573.9	578.6	578.6
35°	552.0	553.3	556.7	562.0	562.0
37.5°	532.1	534.1	537.4	544.1	545.4
40°	512.2	513.5	517.5	524.8	524.8
42.5°	490.3	491.6	497.0	504.2	502.9
45°	465.8	469.7	476.4	480.4	474.4
47.5°	442.5	445.2	454.5	449.8	439.9
50°	416.0	421.3	430.6	414.0	404.7
52.5°	388.8	394.8	404.7	381.5	376.2
55°	361.6	368.9	372.2	353.0	347.7
57.5°	332.4	340.4	333.7	322.5	317.1
60°	303.2	312.5	302.5	291.9	288.6
62.5°	272.7	283.3	272.0	262.7	258.1
65°	240.2	254.8	241.5	232.2	228.2
67.5°	208.3	223.6	209.7	201.7	199.0
70°	178.5	187.1	180.5	172.5	167.2
72.5°	142.6	151.3	149.9	141.3	138.0
75°	113.5	121.4	118.8	111.5	108.1
77.5°	84.3	92.9	90.2	81.6	80.3
80°	60.4	66.3	61.7	53.7	51.1
82.5°	37.8	42.5	36.5	30.5	29.2
85°	19.9	21.2	17.3	15.3	14.6
87.5°	6.6	7.3	7.3	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)