

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: P225563

Luminaire Tested: **14AC-LD5-29-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: P225563
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-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: 1998.3 lumens
Efficiency: N/A
Efficacy: 79.9 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

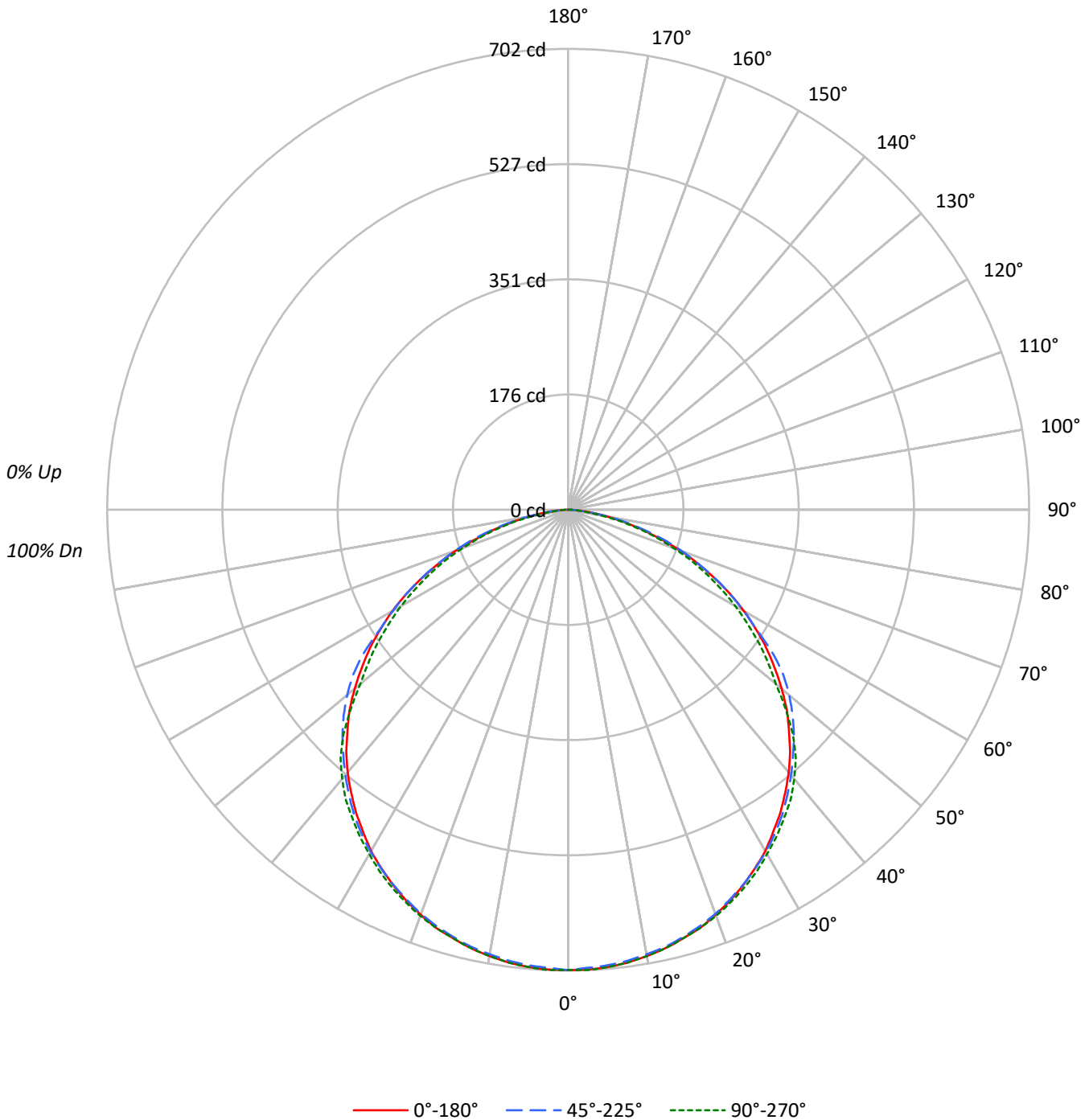
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1969	1969	1969
5°	1971	1963	1971
10°	1969	1961	1969
15°	1966	1960	1966
20°	1962	1958	1968
25°	1954	1953	1967
30°	1947	1951	1964
35°	1931	1947	1965
40°	1915	1935	1963
45°	1887	1930	1922
50°	1854	1919	1804
55°	1806	1859	1736
60°	1737	1733	1653
65°	1628	1637	1547
70°	1495	1511	1401
75°	1255	1315	1197
80°	996	1017	842
85°	654	567	480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	3.3
10°-20°	190.9	9.6
20°-30°	291.4	14.6
30°-40°	355.6	17.8
40°-50°	371.9	18.6
50°-60°	329.2	16.5
60°-70°	242.4	12.1
70°-80°	125.5	6.3
80°-90°	25.0	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°	548.7	27.5
0°-40°	904.3	45.3
0°-60°	1605.4	80.3
0°-90°	1998.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1998.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	701	701	701	701	701	
5°	699	699	696	699	699	66
15°	676	676	674	677	676	191
25°	631	631	630	634	635	291
35°	563	564	568	573	573	352
45°	475	479	486	490	484	367
55°	369	376	380	360	355	329
65°	245	260	246	237	233	243
75°	116	124	121	114	110	124
85°	20	22	18	16	15	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	701.2	701.2	701.2	701.2	701.2
2.5°	701.2	701.2	698.5	701.2	701.9
5°	699.2	699.2	696.5	699.2	699.2
7.5°	695.8	695.1	693.1	695.8	695.8
10°	690.4	690.4	687.7	691.1	690.4
12.5°	684.3	683.6	682.3	685.0	684.3
15°	676.2	676.2	674.2	676.9	676.2
17.5°	668.1	667.4	665.4	668.1	668.1
20°	656.6	655.9	655.2	657.9	658.6
22.5°	644.4	643.7	643.0	647.1	647.1
25°	630.8	630.8	630.2	634.2	634.9
27.5°	615.9	615.9	616.6	622.0	621.4
30°	600.4	600.4	601.7	605.8	605.8
32.5°	581.4	582.8	585.5	590.2	590.2
35°	563.2	564.5	567.9	573.3	573.3
37.5°	542.8	544.9	548.3	555.0	556.4
40°	522.5	523.9	528.0	535.4	535.4
42.5°	500.2	501.6	507.0	514.4	513.1
45°	475.2	479.2	486.0	490.0	484.0
47.5°	451.5	454.2	463.7	458.9	448.8
50°	424.4	429.8	439.3	422.4	412.9
52.5°	396.6	402.7	412.9	389.2	383.8
55°	368.9	376.3	379.7	360.1	354.7
57.5°	339.1	347.2	340.5	329.0	323.5
60°	309.3	318.8	308.6	297.8	294.4
62.5°	278.2	289.0	277.5	268.0	263.3
65°	245.0	259.9	246.4	236.9	232.8
67.5°	212.5	228.1	213.9	205.8	203.1
70°	182.1	190.9	184.1	176.0	170.6
72.5°	145.5	154.3	153.0	144.2	140.8
75°	115.7	123.9	121.2	113.7	110.3
77.5°	86.0	94.8	92.1	83.3	81.9
80°	61.6	67.7	62.9	54.8	52.1
82.5°	38.6	43.3	37.2	31.1	29.8
85°	20.3	21.7	17.6	15.6	14.9
87.5°	6.8	7.4	7.4	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)