

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: P225561

Luminaire Tested: **14AC-LD5-29-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: P225561
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-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: 1941.0 lumens
Efficiency: N/A
Efficacy: 77.6 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

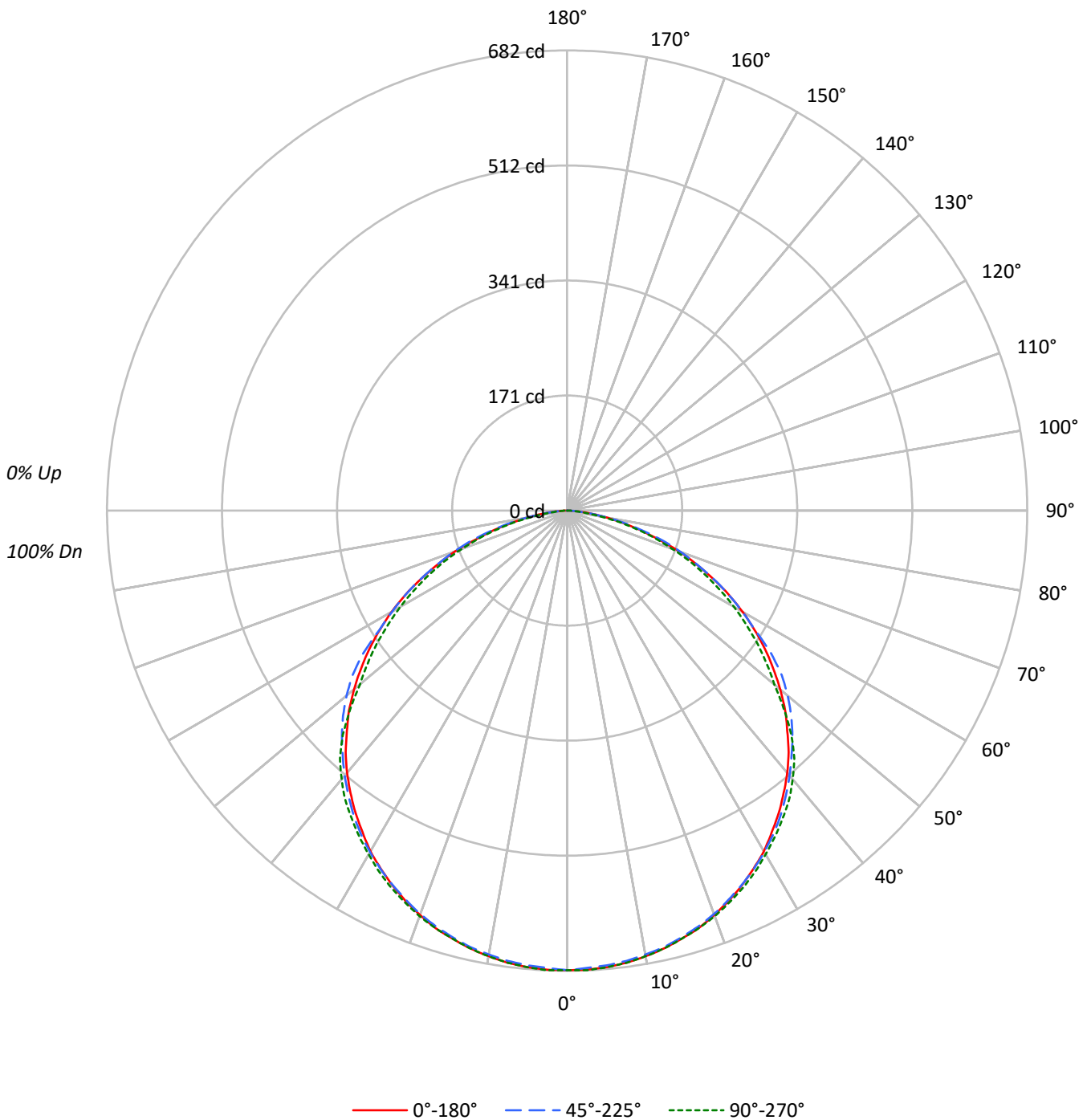
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1913	1913	1913
5°	1914	1907	1914
10°	1912	1905	1912
15°	1909	1904	1909
20°	1906	1902	1912
25°	1899	1896	1911
30°	1891	1895	1908
35°	1875	1891	1909
40°	1861	1880	1906
45°	1833	1875	1867
50°	1801	1864	1752
55°	1754	1805	1687
60°	1688	1684	1606
65°	1581	1590	1503
70°	1452	1468	1360
75°	1219	1277	1163
80°	967	988	818
85°	635	551	467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	3.3
10°-20°	185.4	9.6
20°-30°	283.1	14.6
30°-40°	345.4	17.8
40°-50°	361.2	18.6
50°-60°	319.8	16.5
60°-70°	235.5	12.1
70°-80°	121.9	6.3
80°-90°	24.3	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°	533.0	27.5
0°-40°	878.4	45.3
0°-60°	1559.4	80.3
0°-90°	1941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	679	679	676	679	679	65
15°	657	657	655	658	657	186
25°	613	613	612	616	617	282
35°	547	548	552	557	557	342
45°	462	466	472	476	470	356
55°	358	366	369	350	344	320
65°	238	252	239	230	226	236
75°	112	120	118	110	107	120
85°	20	21	17	15	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	681.1	681.1	681.1	681.1	681.1
2.5°	681.1	681.1	678.5	681.1	681.8
5°	679.2	679.2	676.5	679.2	679.2
7.5°	675.9	675.2	673.2	675.9	675.9
10°	670.6	670.6	668.0	671.3	670.6
12.5°	664.7	664.0	662.7	665.4	664.7
15°	656.8	656.8	654.8	657.5	656.8
17.5°	648.9	648.3	646.3	648.9	648.9
20°	637.7	637.1	636.4	639.1	639.7
22.5°	625.9	625.3	624.6	628.5	628.5
25°	612.8	612.8	612.1	616.0	616.7
27.5°	598.3	598.3	599.0	604.2	603.6
30°	583.2	583.2	584.5	588.4	588.4
32.5°	564.8	566.1	568.7	573.3	573.3
35°	547.0	548.3	551.6	556.9	556.9
37.5°	527.3	529.3	532.5	539.1	540.4
40°	507.6	508.9	512.8	520.1	520.1
42.5°	485.9	487.2	492.4	499.7	498.4
45°	461.5	465.5	472.1	476.0	470.1
47.5°	438.5	441.2	450.4	445.8	435.9
50°	412.2	417.5	426.7	410.3	401.1
52.5°	385.3	391.2	401.1	378.0	372.8
55°	358.3	365.6	368.8	349.8	344.5
57.5°	329.4	337.3	330.7	319.5	314.3
60°	300.5	309.7	299.8	289.3	286.0
62.5°	270.2	280.7	269.6	260.4	255.8
65°	238.0	252.5	239.3	230.1	226.2
67.5°	206.4	221.6	207.8	199.9	197.2
70°	176.9	185.4	178.8	170.9	165.7
72.5°	141.4	149.9	148.6	140.0	136.8
75°	112.4	120.3	117.7	110.5	107.2
77.5°	83.5	92.0	89.4	80.9	79.6
80°	59.8	65.7	61.1	53.3	50.6
82.5°	37.5	42.1	36.2	30.2	28.9
85°	19.7	21.0	17.1	15.1	14.5
87.5°	6.6	7.2	7.2	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)