

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: P225571

Luminaire Tested: **14AC-LD5-39-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: P225571
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-LD5-39-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: 2711.1 lumens
Efficiency: N/A
Efficacy: 76.0 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

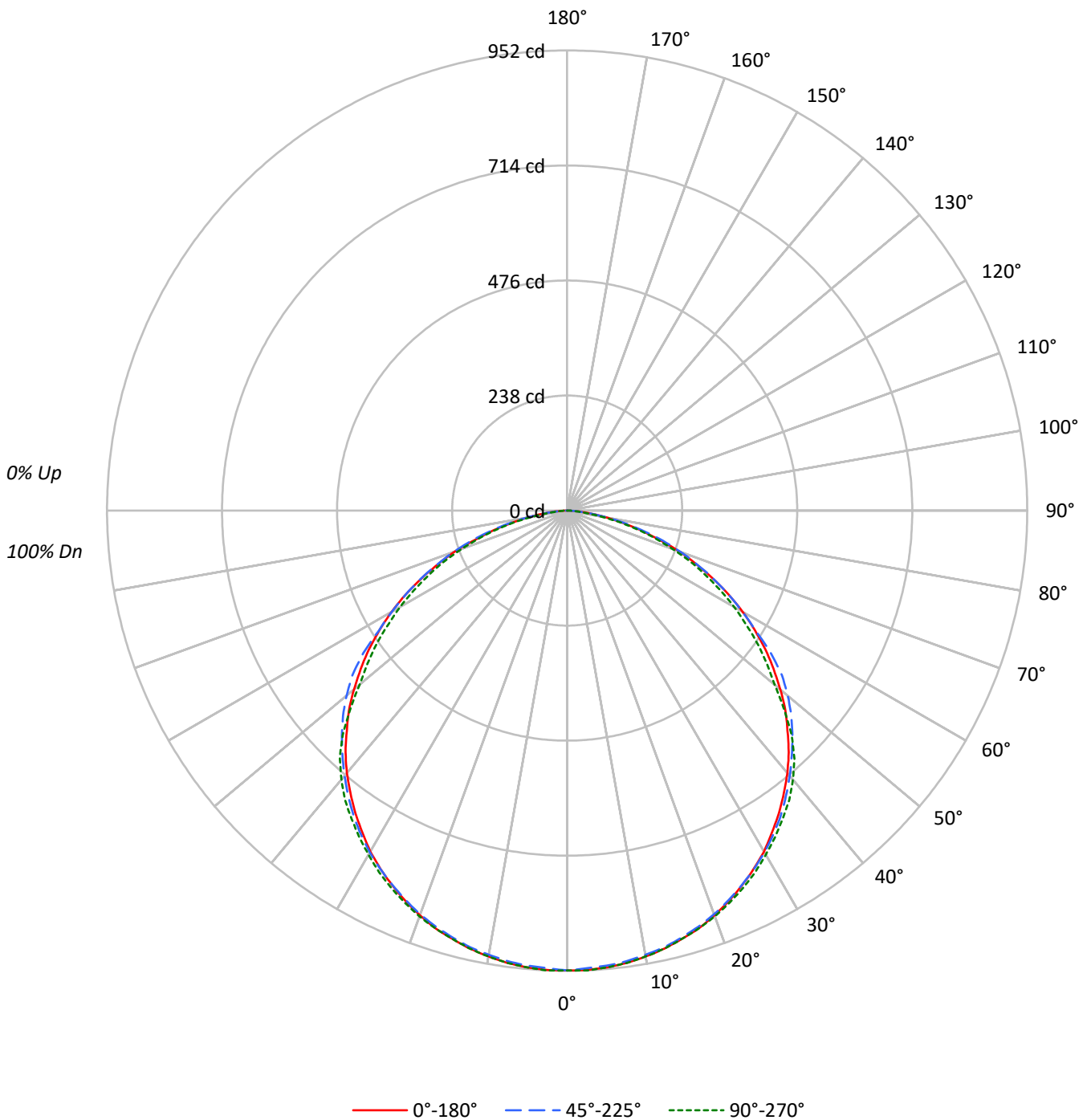
Input Watts (W): 35.67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2672	2672	2672
5°	2674	2663	2674
10°	2671	2660	2671
15°	2667	2659	2667
20°	2662	2656	2670
25°	2652	2649	2669
30°	2641	2647	2665
35°	2619	2641	2666
40°	2599	2626	2663
45°	2560	2618	2607
50°	2515	2604	2447
55°	2450	2522	2356
60°	2357	2352	2244
65°	2209	2221	2099
70°	2028	2051	1900
75°	1703	1784	1624
80°	1352	1381	1143
85°	886	770	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.3
10°-20°	259.0	9.6
20°-30°	395.4	14.6
30°-40°	482.4	17.8
40°-50°	504.5	18.6
50°-60°	446.6	16.5
60°-70°	328.9	12.1
70°-80°	170.3	6.3
80°-90°	33.9	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°	744.5	27.5
0°-40°	1226.9	45.3
0°-60°	2178.0	80.3
0°-90°	2711.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2711.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	949	949	945	949	949	90
15°	917	917	915	918	917	259
25°	856	856	855	860	861	395
35°	764	766	770	778	778	478
45°	645	650	659	665	657	498
55°	500	511	515	488	481	446
65°	332	353	334	321	316	329
75°	157	168	164	154	150	168
85°	28	29	24	21	20	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.4	951.4	951.4	951.4	951.4
2.5°	951.4	951.4	947.7	951.4	952.3
5°	948.6	948.6	944.9	948.6	948.6
7.5°	944.0	943.1	940.4	944.0	944.0
10°	936.7	936.7	933.0	937.6	936.7
12.5°	928.4	927.5	925.7	929.3	928.4
15°	917.4	917.4	914.6	918.3	917.4
17.5°	906.4	905.5	902.7	906.4	906.4
20°	890.8	889.8	888.9	892.6	893.5
22.5°	874.2	873.3	872.4	877.9	877.9
25°	855.9	855.9	854.9	860.5	861.4
27.5°	835.7	835.7	836.6	843.9	843.0
30°	814.5	814.5	816.4	821.9	821.9
32.5°	788.8	790.7	794.3	800.8	800.8
35°	764.0	765.9	770.5	777.8	777.8
37.5°	736.5	739.2	743.8	753.0	754.9
40°	708.9	710.8	716.3	726.4	726.4
42.5°	678.6	680.5	687.8	697.9	696.1
45°	644.7	650.2	659.3	664.9	656.6
47.5°	612.5	616.2	629.0	622.6	608.8
50°	575.8	583.1	596.0	573.0	560.2
52.5°	538.1	546.4	560.2	528.0	520.7
55°	500.5	510.6	515.2	488.5	481.2
57.5°	460.1	471.1	461.9	446.3	439.0
60°	419.7	432.5	418.8	404.1	399.5
62.5°	377.4	392.1	376.5	363.7	357.2
65°	332.4	352.6	334.3	321.4	315.9
67.5°	288.4	309.5	290.2	279.2	275.5
70°	247.0	259.0	249.8	238.8	231.4
72.5°	197.4	209.4	207.5	195.6	191.0
75°	157.0	168.1	164.4	154.3	149.7
77.5°	116.6	128.6	124.9	113.0	111.1
80°	83.6	91.8	85.4	74.4	70.7
82.5°	52.3	58.8	50.5	42.2	40.4
85°	27.5	29.4	23.9	21.1	20.2
87.5°	9.2	10.1	10.1	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)