

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: P225575

Luminaire Tested: **14AC-LD5-44-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: P225575
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-LD5-44-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

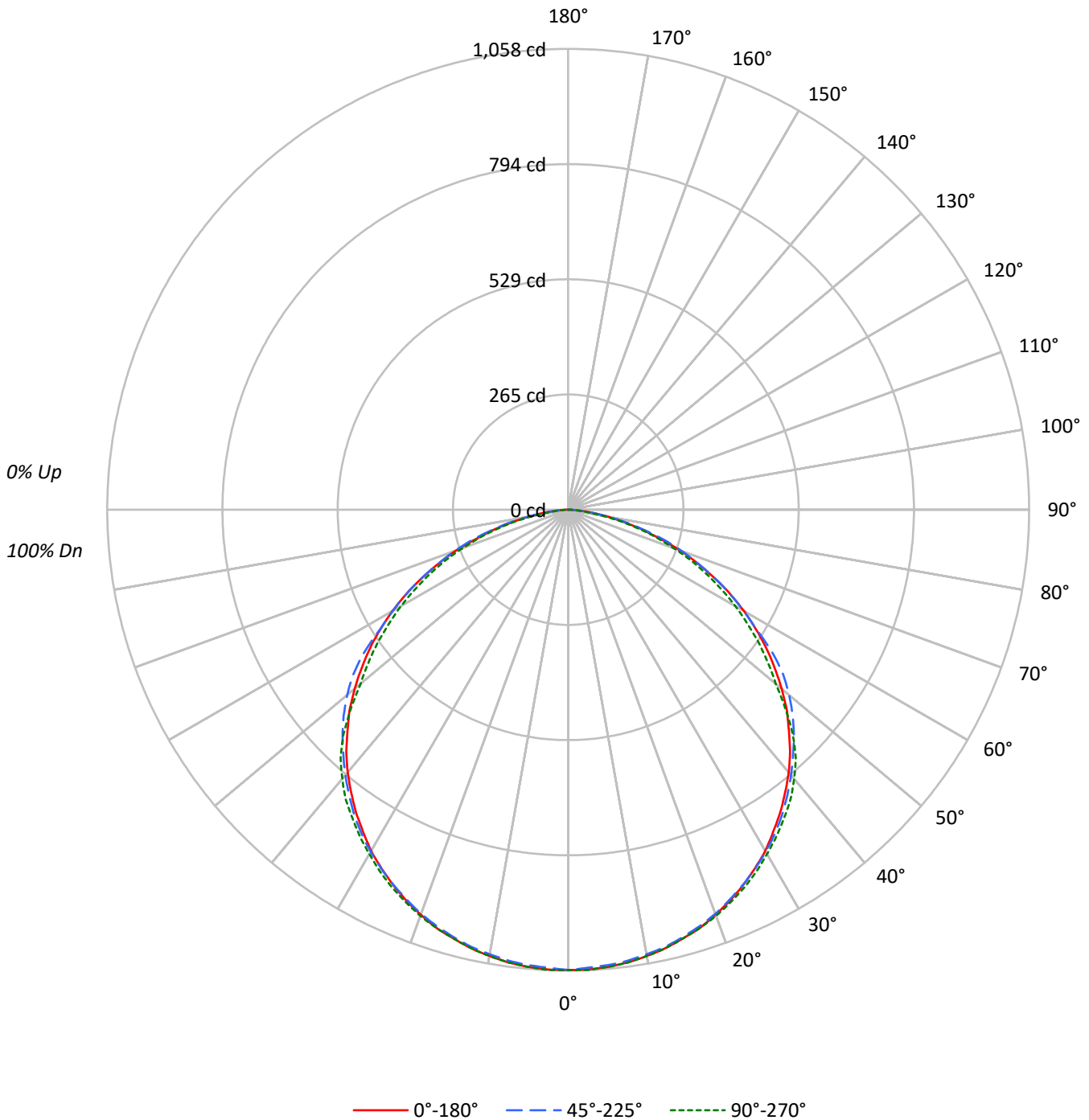
Lumens per Lamp: N/A
Luminaire Lumens: 3011.2 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 41.12
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°	2967	2967	2967
5°	2970	2959	2970
10°	2966	2955	2966
15°	2962	2953	2962
20°	2957	2950	2965
25°	2945	2942	2964
30°	2933	2940	2960
35°	2909	2934	2961
40°	2886	2916	2957
45°	2843	2908	2896
50°	2794	2892	2718
55°	2721	2801	2617
60°	2618	2612	2492
65°	2453	2467	2331
70°	2253	2277	2110
75°	1892	1981	1804
80°	1501	1535	1269
85°	986	854	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.3
10°-20°	287.6	9.6
20°-30°	439.2	14.6
30°-40°	535.8	17.8
40°-50°	560.3	18.6
50°-60°	496.1	16.5
60°-70°	365.3	12.1
70°-80°	189.1	6.3
80°-90°	37.7	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°	826.9	27.5
0°-40°	1362.7	45.3
0°-60°	2419.1	80.3
0°-90°	3011.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1054	1054	1050	1054	1054	100
15°	1019	1019	1016	1020	1019	288
25°	951	951	950	956	957	438
35°	849	851	856	864	864	531
45°	716	722	732	738	729	553
55°	556	567	572	543	534	496
65°	369	392	371	357	351	366
75°	174	187	183	171	166	186
85°	31	33	26	24	22	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.7	1056.7	1056.7	1056.7	1056.7
2.5°	1056.7	1056.7	1052.6	1056.7	1057.7
5°	1053.6	1053.6	1049.6	1053.6	1053.6
7.5°	1048.5	1047.5	1044.5	1048.5	1048.5
10°	1040.4	1040.4	1036.3	1041.4	1040.4
12.5°	1031.2	1030.2	1028.1	1032.2	1031.2
15°	1019.0	1019.0	1015.9	1020.0	1019.0
17.5°	1006.7	1005.7	1002.6	1006.7	1006.7
20°	989.4	988.4	987.3	991.4	992.4
22.5°	971.0	970.0	969.0	975.1	975.1
25°	950.6	950.6	949.6	955.7	956.7
27.5°	928.2	928.2	929.2	937.4	936.3
30°	904.7	904.7	906.8	912.9	912.9
32.5°	876.2	878.2	882.3	889.4	889.4
35°	848.6	850.7	855.8	863.9	863.9
37.5°	818.0	821.1	826.2	836.4	838.4
40°	787.4	789.5	795.6	806.8	806.8
42.5°	753.8	755.8	764.0	775.2	773.1
45°	716.0	722.1	732.3	738.5	729.3
47.5°	680.3	684.4	698.7	691.5	676.2
50°	639.5	647.7	662.0	636.5	622.2
52.5°	597.7	606.9	622.2	586.5	578.3
55°	555.9	567.1	572.2	542.6	534.5
57.5°	511.0	523.2	513.0	495.7	487.5
60°	466.1	480.4	465.1	448.8	443.7
62.5°	419.2	435.5	418.2	403.9	396.8
65°	369.2	391.7	371.3	357.0	350.9
67.5°	320.3	343.7	322.3	310.1	306.0
70°	274.4	287.6	277.4	265.2	257.0
72.5°	219.3	232.6	230.5	217.3	212.2
75°	174.4	186.7	182.6	171.4	166.3
77.5°	129.5	142.8	138.7	125.5	123.4
80°	92.8	102.0	94.9	82.6	78.5
82.5°	58.1	65.3	56.1	46.9	44.9
85°	30.6	32.6	26.5	23.5	22.4
87.5°	10.2	11.2	11.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)