

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: P225566

Luminaire Tested: **14AC-LD5-35-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: P225566
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-LD5-35-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: 2410.3 lumens
Efficiency: N/A
Efficacy: 76.6 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

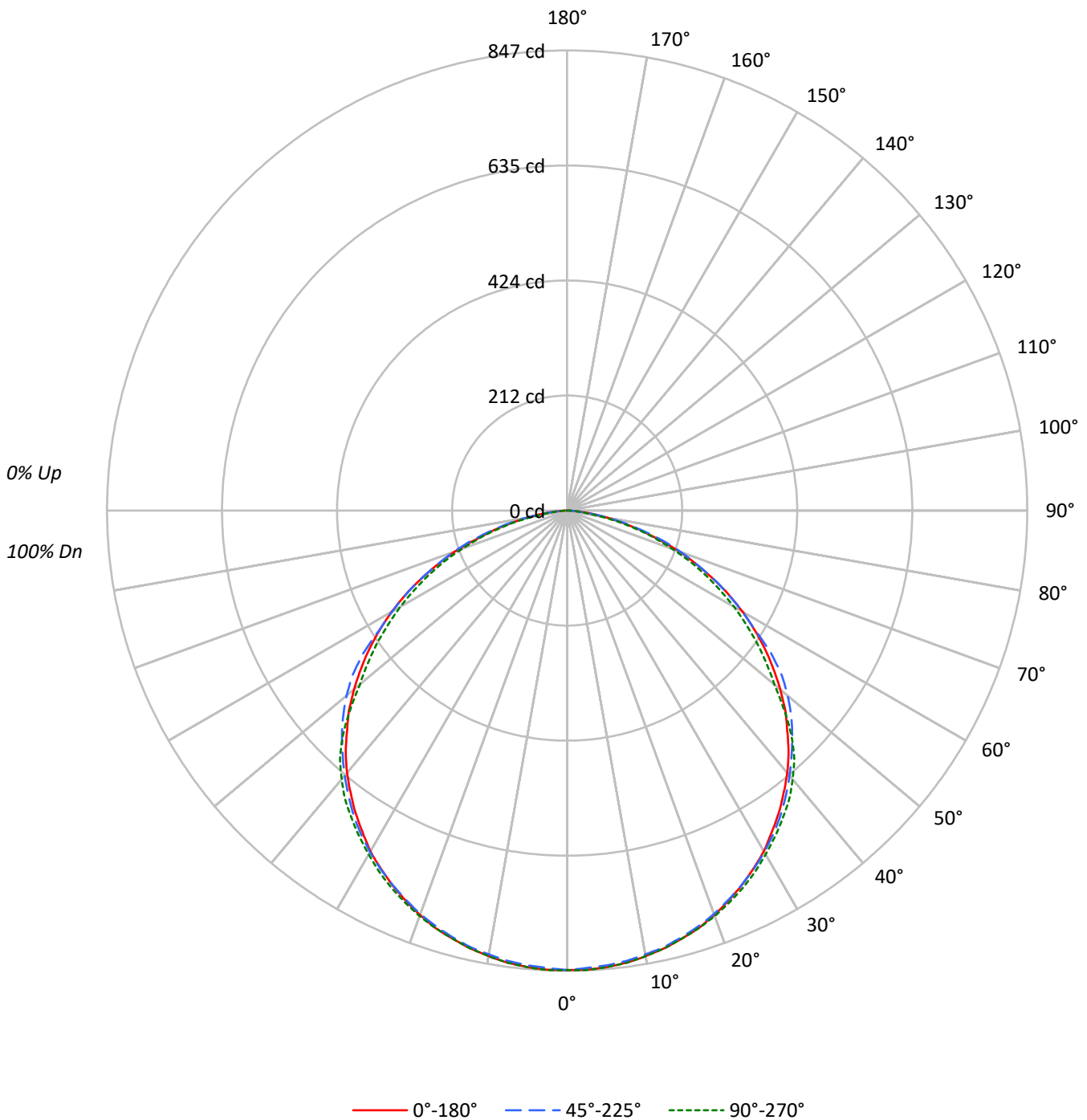
Input Watts (W): 31.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2375	2375	2375
5°	2377	2368	2377
10°	2375	2365	2375
15°	2371	2364	2371
20°	2366	2362	2374
25°	2357	2355	2373
30°	2348	2353	2369
35°	2329	2348	2370
40°	2310	2334	2367
45°	2276	2328	2318
50°	2236	2315	2175
55°	2179	2242	2094
60°	2095	2091	1994
65°	1963	1975	1866
70°	1803	1823	1689
75°	1515	1585	1444
80°	1201	1227	1017
85°	789	683	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	3.3
10°-20°	230.2	9.6
20°-30°	351.5	14.6
30°-40°	428.9	17.8
40°-50°	448.5	18.6
50°-60°	397.1	16.5
60°-70°	292.4	12.1
70°-80°	151.4	6.3
80°-90°	30.2	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°	661.9	27.5
0°-40°	1090.8	45.3
0°-60°	1936.4	80.3
0°-90°	2410.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2410.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	843	843	840	843	843	80
15°	816	816	813	816	816	230
25°	761	761	760	765	766	351
35°	679	681	685	692	692	425
45°	573	578	586	591	584	443
55°	445	454	458	434	428	397
65°	296	314	297	286	281	293
75°	140	149	146	137	133	149
85°	24	26	21	19	18	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.8	845.8	845.8	845.8	845.8
2.5°	845.8	845.8	842.6	845.8	846.6
5°	843.4	843.4	840.1	843.4	843.4
7.5°	839.3	838.5	836.0	839.3	839.3
10°	832.8	832.8	829.5	833.6	832.8
12.5°	825.4	824.6	823.0	826.2	825.4
15°	815.6	815.6	813.2	816.4	815.6
17.5°	805.8	805.0	802.5	805.8	805.8
20°	791.9	791.1	790.3	793.6	794.4
22.5°	777.2	776.4	775.6	780.5	780.5
25°	760.9	760.9	760.1	765.0	765.8
27.5°	742.9	742.9	743.8	750.3	749.5
30°	724.2	724.2	725.8	730.7	730.7
32.5°	701.3	702.9	706.2	711.9	711.9
35°	679.3	680.9	685.0	691.5	691.5
37.5°	654.8	657.2	661.3	669.5	671.1
40°	630.3	631.9	636.8	645.8	645.8
42.5°	603.3	605.0	611.5	620.5	618.9
45°	573.1	578.0	586.2	591.1	583.7
47.5°	544.6	547.8	559.3	553.5	541.3
50°	511.9	518.4	529.9	509.5	498.0
52.5°	478.4	485.8	498.0	469.4	462.9
55°	445.0	453.9	458.0	434.3	427.8
57.5°	409.0	418.8	410.7	396.8	390.3
60°	373.1	384.5	372.3	359.2	355.1
62.5°	335.6	348.6	334.7	323.3	317.6
65°	295.5	313.5	297.2	285.7	280.9
67.5°	256.4	275.1	258.0	248.2	244.9
70°	219.6	230.2	222.1	212.3	205.7
72.5°	175.5	186.1	184.5	173.9	169.8
75°	139.6	149.4	146.1	137.2	133.1
77.5°	103.7	114.3	111.0	100.4	98.8
80°	74.3	81.6	75.9	66.1	62.9
82.5°	46.5	52.3	44.9	37.6	35.9
85°	24.5	26.1	21.2	18.8	18.0
87.5°	8.2	9.0	9.0	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)