

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: P225610

Luminaire Tested: **22AC-LD5-34-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: P225610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35765)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22AC-LD5-34-SQP-UNV-L840-CD1-U  
Description: METALUX Accord 2X2 LED TROFFER WITH SQP LENS  
Light Source: (84)4000K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2578.6 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

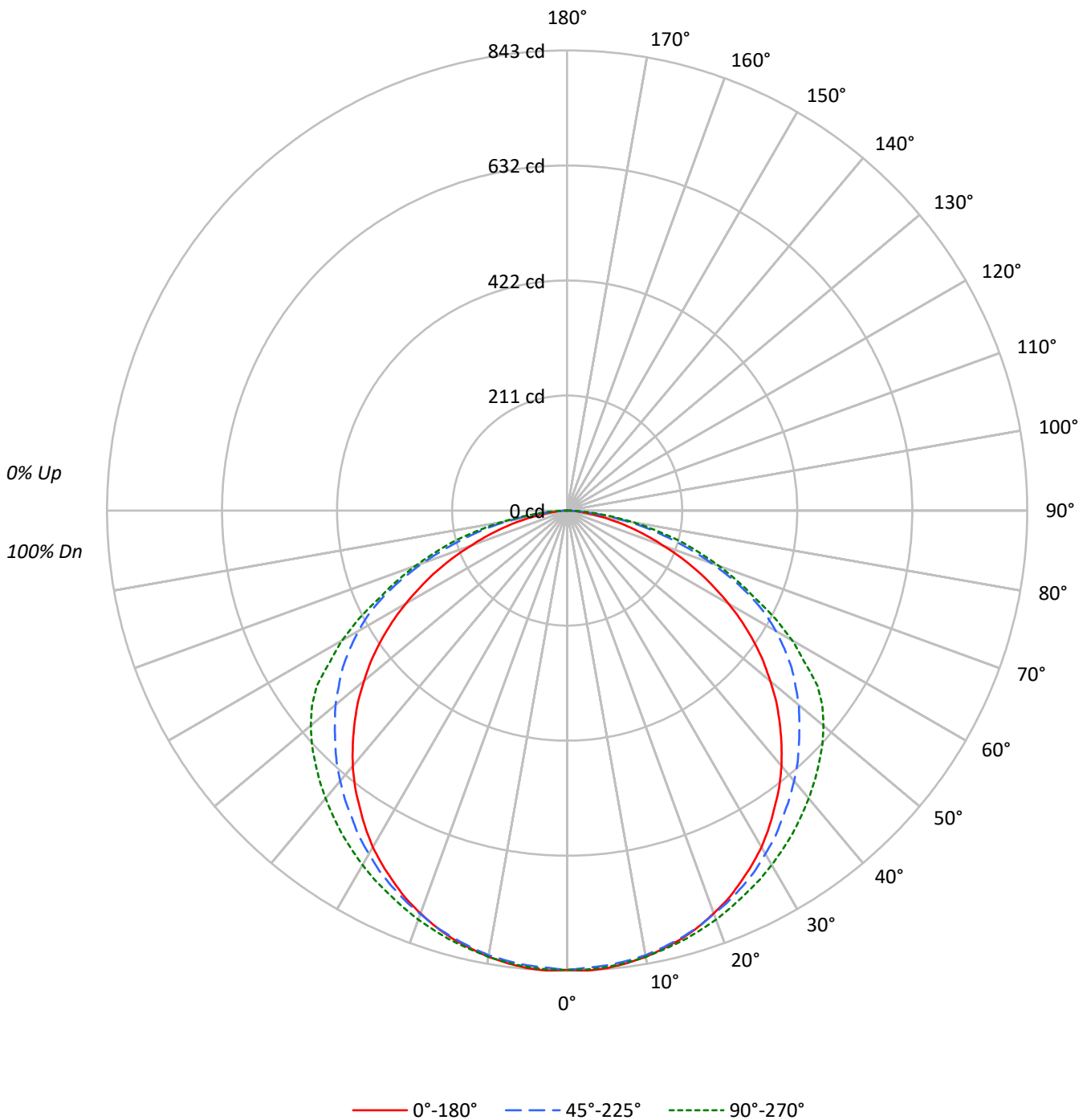
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2264	2264	2264
5°	2273	2259	2267
10°	2269	2260	2269
15°	2262	2256	2273
20°	2249	2252	2284
25°	2232	2256	2298
30°	2212	2256	2329
35°	2178	2258	2369
40°	2146	2271	2418
45°	2096	2286	2484
50°	2033	2318	2566
55°	1957	2354	2627
60°	1839	2377	2563
65°	1689	2357	2422
70°	1468	2215	2327
75°	1251	1993	2195
80°	948	1706	1897
85°	630	1133	1321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.7	3.1
10°-20°	229.2	8.9
20°-30°	351.2	13.6
30°-40°	432.3	16.8
40°-50°	464.7	18.0
50°-60°	441.1	17.1
60°-70°	341.9	13.3
70°-80°	193.0	7.5
80°-90°	45.5	1.8
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°	660.1	25.6
0°-40°	1092.4	42.4
0°-60°	1998.2	77.5
0°-90°	2578.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2578.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	841	838	836	837	839	80
15°	812	811	810	814	816	229
25°	752	754	760	769	774	346
35°	663	671	687	711	721	415
45°	551	567	601	638	653	425
55°	417	451	502	545	560	372
65°	265	310	370	377	380	262
75°	120	170	192	204	211	128
85°	20	30	37	42	43	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	841.4	841.4	841.4	841.4	841.4
2.5°	843.4	841.4	838.3	840.4	841.4
5°	841.4	838.3	836.3	837.3	839.3
7.5°	836.3	834.2	832.2	834.2	835.3
10°	830.2	828.1	827.1	829.1	830.2
12.5°	821.0	820.0	818.9	822.0	823.0
15°	811.8	810.8	809.8	813.8	815.9
17.5°	799.6	798.5	799.6	803.6	806.7
20°	785.3	785.3	786.3	793.5	797.5
22.5°	770.0	771.0	774.1	781.2	786.3
25°	751.6	753.7	759.8	769.0	774.1
27.5°	732.3	735.3	744.5	755.7	762.9
30°	711.9	715.9	726.1	741.4	749.6
32.5°	688.4	693.5	708.8	727.2	735.3
35°	662.9	671.1	687.4	710.8	721.0
37.5°	638.4	646.6	668.0	693.5	704.7
40°	610.9	621.1	646.6	675.1	688.4
42.5°	581.3	594.6	625.2	657.8	671.1
45°	550.7	567.0	600.7	638.4	652.7
47.5°	520.1	537.5	577.2	618.0	634.4
50°	485.5	507.9	553.8	595.6	612.9
52.5°	452.8	478.3	527.3	571.1	589.5
55°	417.1	450.8	501.8	544.6	559.9
57.5°	380.4	418.1	472.2	510.9	515.0
60°	341.7	381.4	441.6	469.1	476.3
62.5°	302.9	346.8	409.0	429.4	430.4
65°	265.2	310.0	370.2	377.3	380.4
67.5°	226.4	276.4	326.4	331.5	337.6
70°	186.6	241.7	281.5	291.7	295.8
72.5°	152.0	206.0	235.6	247.8	251.9
75°	120.3	170.3	191.7	204.0	211.1
77.5°	88.7	131.6	150.9	161.1	164.2
80°	61.2	92.8	110.1	118.3	122.4
82.5°	38.8	59.2	70.4	78.5	80.6
85°	20.4	29.6	36.7	41.8	42.8
87.5°	8.2	9.2	12.2	20.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)