

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: P225604

Luminaire Tested: **22AC-LD5-34-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: P225604  
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-L835-CD1-U  
Description: METALUX Accord 2X2 LED TROFFER WITH SQP LENS  
Light Source: (84)3500K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2528.0 lumens  
Efficiency: N/A  
Efficacy: 83.7 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

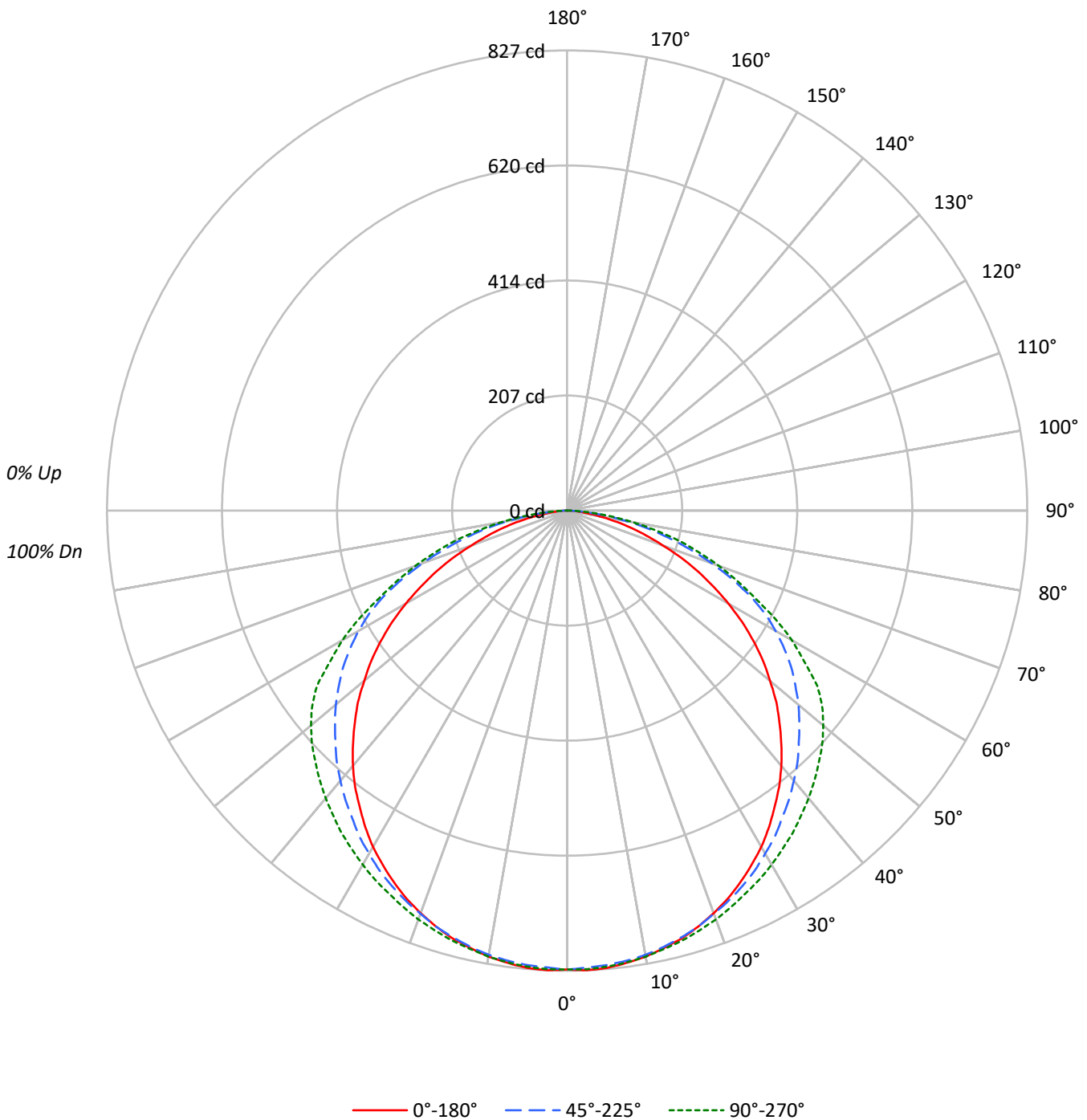
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225604

CATALOG NUMBER: 22AC-LD5-34-SQP-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P225604

CATALOG NUMBER: 22AC-LD5-34-SQP-UNV-L835-CD1-U

**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°	2220	2220	2220
5°	2228	2215	2223
10°	2224	2216	2224
15°	2217	2212	2228
20°	2205	2208	2239
25°	2188	2212	2253
30°	2169	2212	2284
35°	2135	2214	2322
40°	2104	2227	2371
45°	2055	2241	2435
50°	1992	2273	2516
55°	1918	2308	2575
60°	1803	2330	2513
65°	1656	2311	2374
70°	1440	2172	2282
75°	1227	1955	2152
80°	930	1674	1860
85°	618	1112	1297



TEST NUMBER: P225604

CATALOG NUMBER: 22AC-LD5-34-SQP-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.1	3.1
10°-20°	224.8	8.9
20°-30°	344.3	13.6
30°-40°	423.8	16.8
40°-50°	455.5	18.0
50°-60°	432.5	17.1
60°-70°	335.1	13.3
70°-80°	189.2	7.5
80°-90°	44.6	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°	647.2	25.6
0°-40°	1071.0	42.4
0°-60°	1959.0	77.5
0°-90°	2528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2528.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	825	822	820	821	823	78
15°	796	795	794	798	800	224
25°	737	739	745	754	759	340
35°	650	658	674	697	707	407
45°	540	556	589	626	640	416
55°	409	442	492	534	549	365
65°	260	304	363	370	373	257
75°	118	167	188	200	207	125
85°	20	29	36	41	42	26
90°	0	0	0	0	0	



TEST NUMBER: P225604

CATALOG NUMBER: 22AC-LD5-34-SQP-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	824.9	824.9	824.9	824.9	824.9
2.5°	826.9	824.9	821.9	823.9	824.9
5°	824.9	821.9	819.9	820.9	822.9
7.5°	819.9	817.9	815.9	817.9	818.9
10°	813.9	811.9	810.9	812.9	813.9
12.5°	804.9	803.9	802.9	805.9	806.9
15°	795.9	794.9	793.9	797.9	799.9
17.5°	783.9	782.9	783.9	787.9	790.9
20°	769.9	769.9	770.9	777.9	781.9
22.5°	754.9	755.9	758.9	765.9	770.9
25°	736.9	738.9	744.9	753.9	758.9
27.5°	717.9	720.9	729.9	740.9	747.9
30°	697.9	701.9	711.9	726.9	734.9
32.5°	674.9	679.9	694.9	712.9	720.9
35°	649.9	657.9	673.9	696.9	706.9
37.5°	625.9	633.9	654.9	679.9	690.9
40°	598.9	608.9	633.9	661.9	674.9
42.5°	569.9	582.9	612.9	644.9	657.9
45°	539.9	555.9	588.9	625.9	639.9
47.5°	509.9	526.9	565.9	605.9	621.9
50°	475.9	497.9	542.9	583.9	600.9
52.5°	443.9	468.9	516.9	559.9	577.9
55°	408.9	441.9	491.9	533.9	548.9
57.5°	372.9	409.9	462.9	500.9	504.9
60°	335.0	373.9	432.9	459.9	466.9
62.5°	297.0	340.0	400.9	420.9	421.9
65°	260.0	304.0	362.9	369.9	372.9
67.5°	222.0	271.0	320.0	325.0	331.0
70°	183.0	237.0	276.0	286.0	290.0
72.5°	149.0	202.0	231.0	243.0	247.0
75°	118.0	167.0	188.0	200.0	207.0
77.5°	87.0	129.0	148.0	158.0	161.0
80°	60.0	91.0	108.0	116.0	120.0
82.5°	38.0	58.0	69.0	77.0	79.0
85°	20.0	29.0	36.0	41.0	42.0
87.5°	8.0	9.0	12.0	20.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)