

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: P225616

Luminaire Tested: **22AC-LD5-34-RDP-UNV-L830-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: P225616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35766)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-34-RDP-UNV-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH RDP LENS
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2606.6 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.42
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

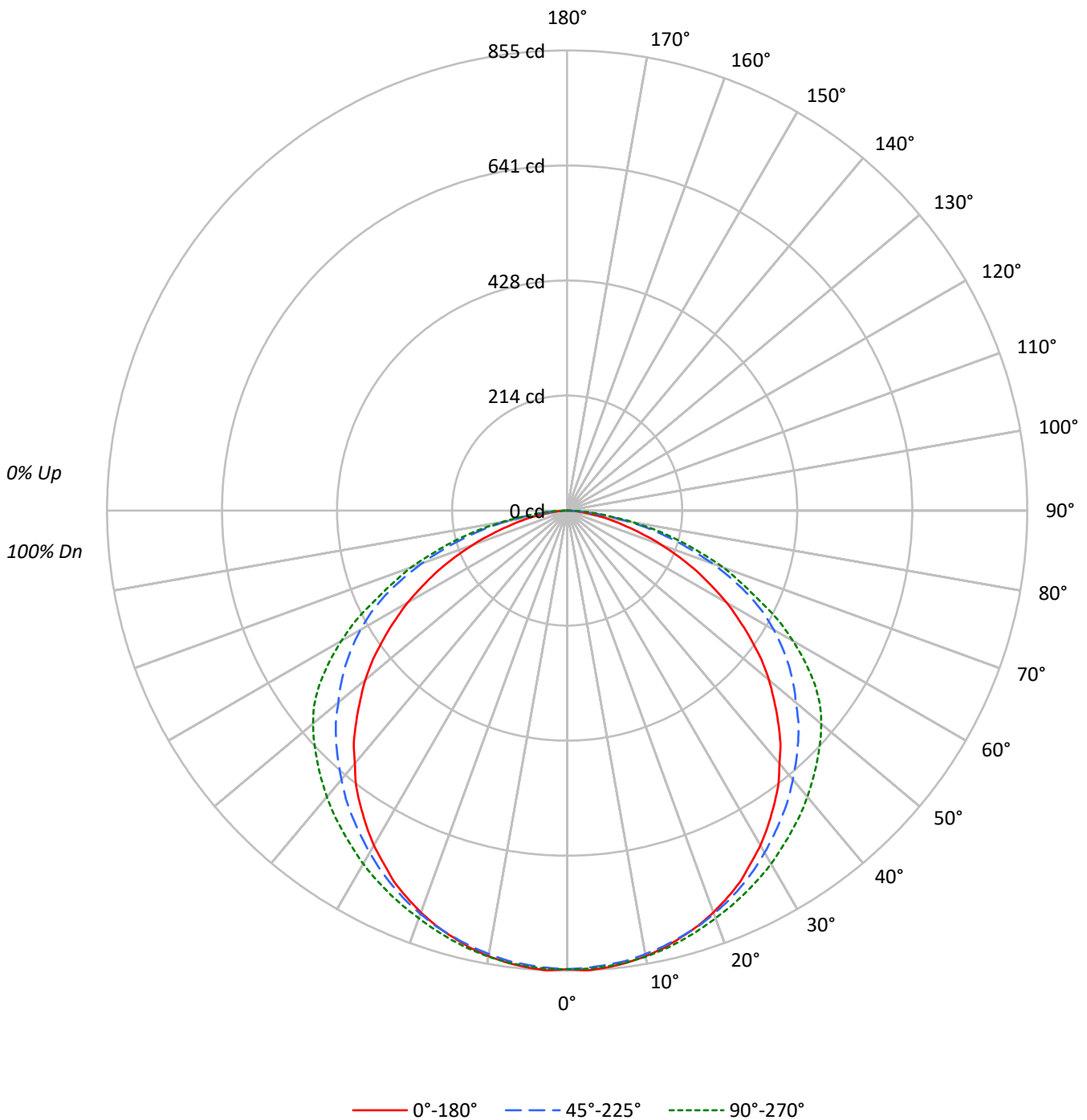
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	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	52	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	34	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°	2293	2293	2293
5°	2302	2289	2297
10°	2297	2287	2300
15°	2286	2283	2302
20°	2275	2283	2308
25°	2259	2282	2328
30°	2233	2280	2355
35°	2199	2284	2389
40°	2156	2291	2440
45°	2109	2310	2500
50°	2050	2323	2581
55°	1954	2360	2635
60°	1843	2386	2609
65°	1684	2376	2499
70°	1468	2263	2430
75°	1200	2060	2230
80°	939	1743	1908
85°	655	1158	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.1
10°-20°	232.1	8.9
20°-30°	355.2	13.6
30°-40°	436.5	16.7
40°-50°	468.1	18.0
50°-60°	443.7	17.0
60°-70°	346.8	13.3
70°-80°	197.3	7.6
80°-90°	46.1	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°	668.1	25.6
0°-40°	1104.6	42.4
0°-60°	2016.4	77.4
0°-90°	2606.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2606.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	852	850	847	849	850	81
15°	820	820	820	823	826	232
25°	761	763	769	779	784	350
35°	670	677	695	718	727	419
45°	554	570	607	644	657	427
55°	416	453	503	548	562	373
65°	264	313	373	389	392	261
75°	115	172	198	213	214	126
85°	21	31	38	43	44	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	852.2	852.2	852.2	852.2	852.2
2.5°	855.1	852.2	850.3	851.3	852.2
5°	852.2	850.3	847.4	849.4	850.3
7.5°	847.4	845.5	843.6	845.5	846.5
10°	840.7	838.8	836.8	839.7	841.7
12.5°	832.0	830.1	829.2	833.0	834.9
15°	820.5	819.5	819.5	823.4	826.3
17.5°	809.0	808.0	809.9	814.7	816.6
20°	794.5	794.5	797.4	803.2	806.1
22.5°	778.2	779.1	783.9	791.6	795.5
25°	760.9	762.8	768.6	779.1	783.9
27.5°	738.7	742.6	752.2	764.7	771.4
30°	718.5	722.4	733.9	750.3	758.0
32.5°	694.5	701.2	714.7	733.9	742.6
35°	669.5	677.2	695.4	717.6	727.2
37.5°	644.5	652.2	675.2	700.3	711.8
40°	613.7	627.2	652.2	682.0	694.5
42.5°	586.8	599.3	630.0	662.7	676.2
45°	554.1	570.4	607.0	643.5	657.0
47.5°	521.3	541.5	582.9	622.3	637.7
50°	489.6	510.8	555.0	599.3	616.6
52.5°	455.0	480.9	530.0	576.2	592.5
55°	416.5	453.1	503.1	548.3	561.7
57.5°	379.0	417.5	474.2	517.5	524.2
60°	342.4	381.9	443.4	477.1	484.8
62.5°	302.0	347.2	410.7	437.7	443.4
65°	264.5	312.6	373.2	388.6	392.5
67.5°	225.1	276.1	329.9	345.3	349.2
70°	186.6	241.4	287.6	301.1	308.8
72.5°	150.1	205.8	241.4	255.9	259.7
75°	115.4	172.2	198.1	212.6	214.5
77.5°	87.5	134.7	156.8	168.3	170.3
80°	60.6	93.3	112.5	121.2	123.1
82.5°	38.5	59.6	72.1	78.9	78.9
85°	21.2	30.8	37.5	43.3	44.2
87.5°	7.7	9.6	12.5	19.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)