

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: P225627

Luminaire Tested: **22AC-LD5-27-RDP-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: P225627
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-LD5-27-RDP-UNV-L840-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH RDP 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: 2154.9 lumens
Efficiency: N/A
Efficacy: 96.2 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

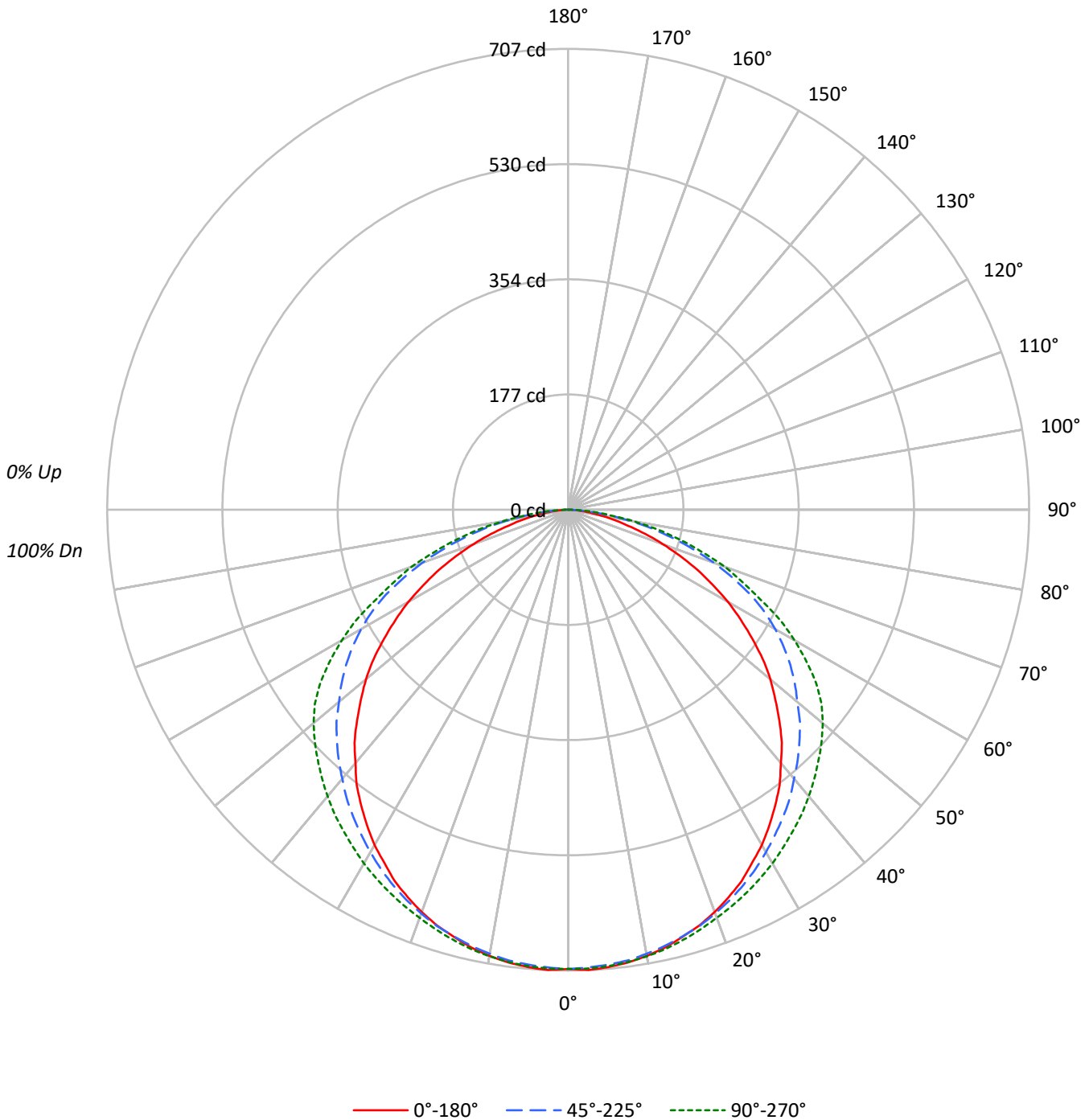
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1896	1896	1896
5°	1903	1893	1899
10°	1899	1890	1901
15°	1890	1887	1903
20°	1881	1888	1908
25°	1868	1887	1924
30°	1846	1885	1947
35°	1818	1889	1975
40°	1782	1894	2017
45°	1743	1910	2067
50°	1695	1921	2134
55°	1615	1951	2179
60°	1524	1973	2157
65°	1393	1964	2066
70°	1214	1871	2009
75°	992	1703	1843
80°	776	1441	1578
85°	540	957	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	3.1
10°-20°	191.9	8.9
20°-30°	293.7	13.6
30°-40°	360.8	16.7
40°-50°	387.0	18.0
50°-60°	366.8	17.0
60°-70°	286.7	13.3
70°-80°	163.1	7.6
80°-90°	38.1	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°	552.3	25.6
0°-40°	913.2	42.4
0°-60°	1667.0	77.4
0°-90°	2154.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2154.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	704	703	701	702	703	67
15°	678	678	678	681	683	192
25°	629	631	635	644	648	289
35°	554	560	575	593	601	346
45°	458	472	502	532	543	353
55°	344	374	416	453	464	308
65°	219	258	308	321	324	216
75°	95	142	164	176	177	104
85°	18	25	31	36	37	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.5	704.5	704.5	704.5	704.5
2.5°	706.9	704.5	703.0	703.7	704.5
5°	704.5	703.0	700.6	702.2	703.0
7.5°	700.6	699.0	697.4	699.0	699.8
10°	695.0	693.4	691.8	694.2	695.8
12.5°	687.8	686.3	685.5	688.6	690.2
15°	678.3	677.5	677.5	680.7	683.1
17.5°	668.8	668.0	669.6	673.5	675.1
20°	656.8	656.8	659.2	664.0	666.4
22.5°	643.3	644.1	648.1	654.4	657.6
25°	629.0	630.6	635.4	644.1	648.1
27.5°	610.7	613.9	621.8	632.2	637.7
30°	594.0	597.2	606.7	620.3	626.6
32.5°	574.1	579.7	590.8	606.7	613.9
35°	553.5	559.8	574.9	593.2	601.2
37.5°	532.8	539.1	558.2	578.9	588.4
40°	507.3	518.5	539.1	563.8	574.1
42.5°	485.1	495.4	520.9	547.9	559.0
45°	458.0	471.5	501.8	532.0	543.1
47.5°	431.0	447.7	481.9	514.5	527.2
50°	404.8	422.2	458.8	495.4	509.7
52.5°	376.1	397.6	438.2	476.3	489.8
55°	344.3	374.5	415.9	453.3	464.4
57.5°	313.3	345.1	392.0	427.8	433.4
60°	283.1	315.7	366.6	394.4	400.8
62.5°	249.7	287.1	339.5	361.8	366.6
65°	218.7	258.4	308.5	321.3	324.4
67.5°	186.1	228.2	272.8	285.5	288.7
70°	154.3	199.6	237.8	248.9	255.3
72.5°	124.1	170.2	199.6	211.5	214.7
75°	95.4	142.3	163.8	175.7	177.3
77.5°	72.4	111.3	129.6	139.2	140.7
80°	50.1	77.1	93.0	100.2	101.8
82.5°	31.8	49.3	59.6	65.2	65.2
85°	17.5	25.4	31.0	35.8	36.6
87.5°	6.4	8.0	10.3	15.9	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)