

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: P225704

Luminaire Tested: **24AC-LD5-36-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: P225704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35754)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24AC-LD5-36-SQP-UNV-L840-CD1-U  
Description: METALUX Accord 2X4 LED TROFFER WITH SQP LENS  
Light Source: (168)4000K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3049.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.45  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

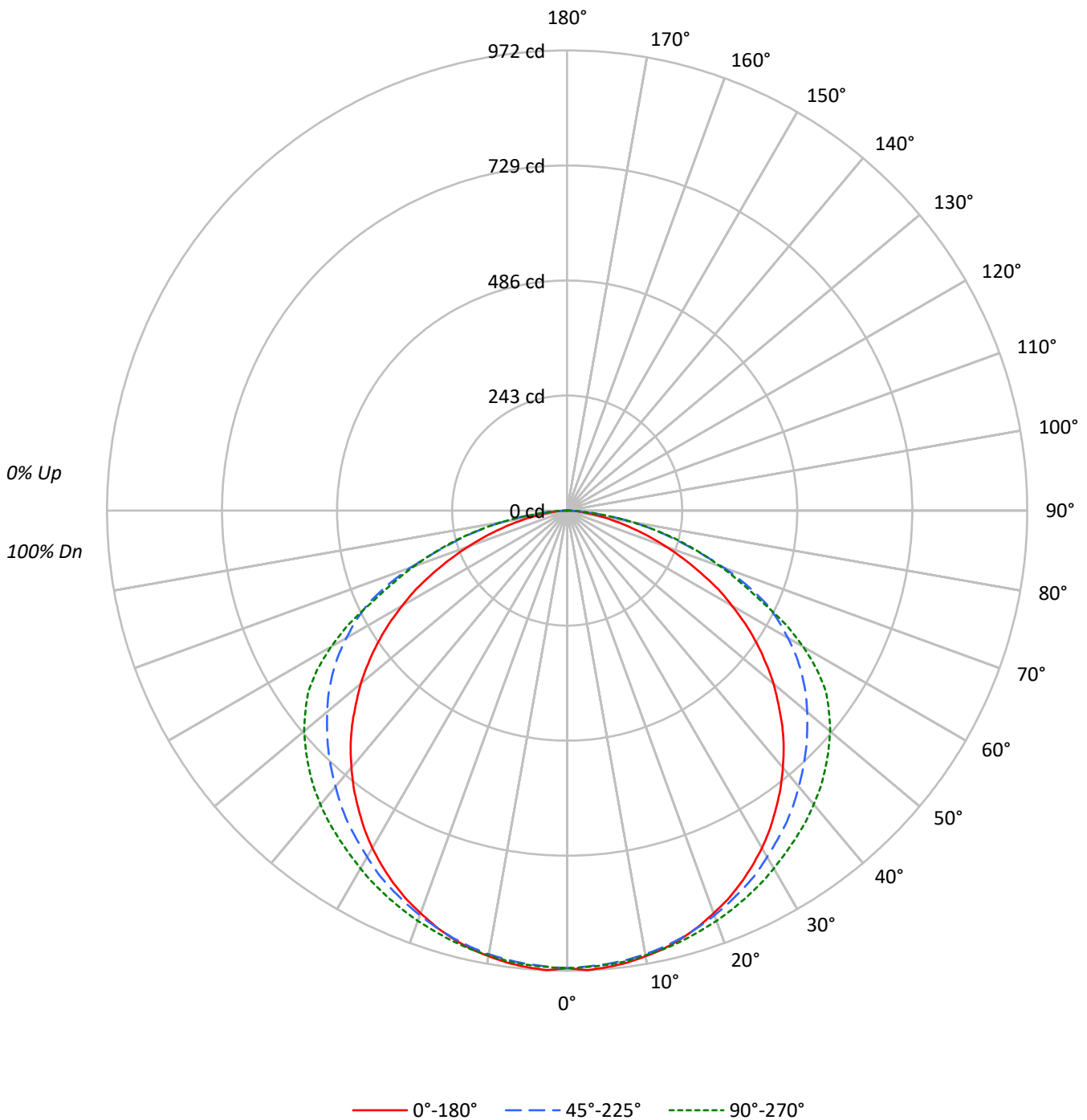
Input Watts (W): 30.06  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		44	38	33	31
8	59	45	37	31	58	45	36	30	43	36	30		42	35	30		41	35	30	28
9	55	41	33	27	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25		36	29	24		35	29	24	23

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

	0°	45°	90°
0°	1301	1301	1301
5°	1308	1299	1301
10°	1306	1300	1304
15°	1303	1301	1310
20°	1296	1303	1321
25°	1289	1307	1336
30°	1279	1313	1356
35°	1263	1325	1385
40°	1245	1337	1424
45°	1223	1358	1468
50°	1192	1385	1518
55°	1148	1422	1567
60°	1083	1449	1550
65°	991	1475	1438
70°	873	1382	1356
75°	729	1241	1267
80°	576	1080	1074
85°	412	682	670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.6	3.0
10°-20°	264.1	8.7
20°-30°	406.6	13.3
30°-40°	504.3	16.5
40°-50°	547.9	18.0
50°-60°	527.8	17.3
60°-70°	416.4	13.7
70°-80°	236.1	7.7
80°-90°	54.1	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°	762.2	25.0
0°-40°	1266.6	41.5
0°-60°	2342.3	76.8
0°-90°	3049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3049.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	968	964	962	960	963	92
15°	936	933	934	936	941	264
25°	868	869	881	892	900	400
35°	769	779	806	831	843	481
45°	643	664	714	755	771	495
55°	489	534	606	651	668	436
65°	311	386	463	458	452	309
75°	140	223	239	242	244	151
85°	27	43	44	44	43	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	966.6	966.6	966.6	966.6	966.6
2.5°	971.6	966.6	964.1	962.5	965.0
5°	968.3	964.1	961.6	959.9	963.3
7.5°	963.3	959.1	957.4	955.8	959.9
10°	955.8	952.4	951.6	950.8	954.1
12.5°	947.4	944.1	944.1	944.9	948.3
15°	935.7	933.2	934.1	935.7	940.7
17.5°	921.6	919.0	922.4	925.7	931.6
20°	904.9	904.9	909.9	914.9	922.4
22.5°	888.2	888.2	895.7	904.0	911.5
25°	868.1	869.0	880.6	891.5	899.8
27.5°	846.4	848.9	864.8	877.3	887.3
30°	823.1	827.2	844.8	863.1	873.1
32.5°	797.2	803.0	825.6	848.1	858.1
35°	768.8	778.8	806.4	830.6	843.1
37.5°	740.4	751.3	784.7	813.0	828.1
40°	708.7	725.4	761.3	794.7	810.5
42.5°	677.0	694.5	737.9	775.5	792.2
45°	642.7	664.5	713.7	754.6	771.3
47.5°	605.2	633.6	687.8	732.1	748.8
50°	569.3	601.8	661.9	707.9	725.4
52.5°	529.2	567.6	635.2	682.0	697.0
55°	489.2	534.2	606.0	651.1	667.8
57.5°	446.6	497.5	574.3	616.0	626.1
60°	402.3	462.4	538.4	576.0	576.0
62.5°	359.8	424.0	502.5	518.4	520.0
65°	311.4	385.6	463.3	458.3	451.6
67.5°	266.3	348.1	409.9	394.8	395.7
70°	222.0	307.2	351.4	343.1	344.7
72.5°	179.5	264.6	289.7	293.0	293.0
75°	140.2	222.9	238.7	242.1	243.7
77.5°	104.3	178.6	189.5	192.0	190.3
80°	74.3	121.9	139.4	137.7	138.6
82.5°	46.7	78.5	88.5	90.2	87.6
85°	26.7	43.4	44.2	44.2	43.4
87.5°	9.2	13.4	14.2	13.4	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)