

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: P225686

Luminaire Tested: **24AC-LD5-36-SQP-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: P225686
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-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH SQP LENS
Light Source: (168)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2875.2 lumens
Efficiency: N/A
Efficacy: 95.5 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

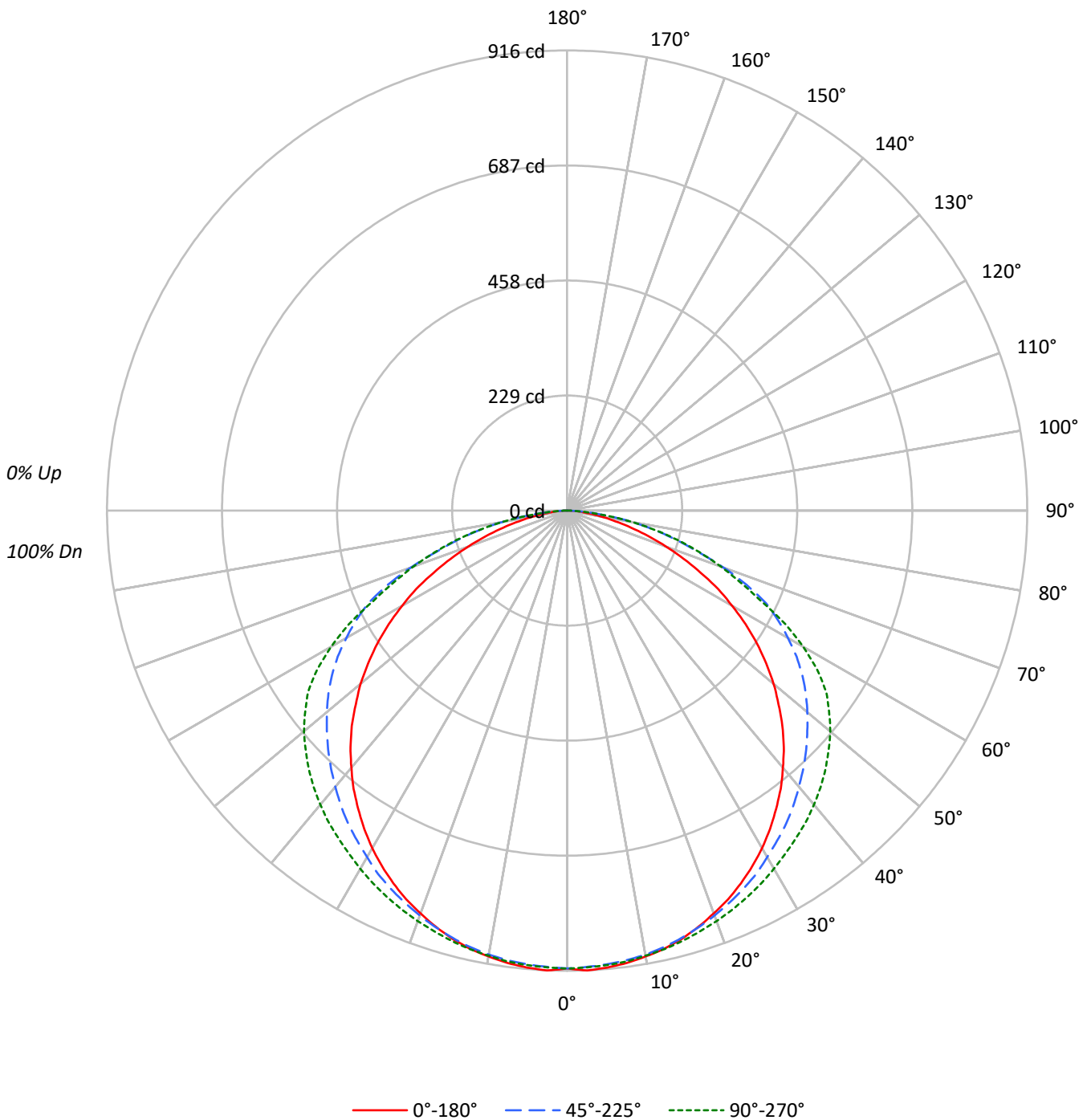
Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1226	1226	1226
5°	1233	1225	1227
10°	1231	1226	1229
15°	1229	1227	1236
20°	1222	1229	1245
25°	1215	1233	1260
30°	1206	1238	1279
35°	1191	1249	1306
40°	1174	1261	1342
45°	1153	1281	1384
50°	1124	1307	1432
55°	1082	1341	1477
60°	1021	1366	1461
65°	935	1391	1356
70°	824	1304	1279
75°	687	1170	1195
80°	543	1019	1013
85°	389	644	631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.0
10°-20°	249.1	8.7
20°-30°	383.4	13.3
30°-40°	475.6	16.5
40°-50°	516.7	18.0
50°-60°	497.7	17.3
60°-70°	392.7	13.7
70°-80°	222.6	7.7
80°-90°	51.1	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°	718.8	25.0
0°-40°	1194.4	41.5
0°-60°	2208.8	76.8
0°-90°	2875.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2875.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	913	909	907	905	908	87
15°	882	880	881	882	887	249
25°	819	819	830	841	849	377
35°	725	734	760	783	795	454
45°	606	627	673	712	727	467
55°	461	504	572	614	630	411
65°	294	364	437	432	426	291
75°	132	210	225	228	230	142
85°	25	41	42	42	41	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	911.5	911.5	911.5	911.5	911.5
2.5°	916.3	911.5	909.2	907.6	910.0
5°	913.1	909.2	906.8	905.2	908.4
7.5°	908.4	904.4	902.9	901.3	905.2
10°	901.3	898.1	897.4	896.6	899.7
12.5°	893.4	890.3	890.3	891.1	894.2
15°	882.4	880.0	880.8	882.4	887.1
17.5°	869.0	866.7	869.8	873.0	878.5
20°	853.3	853.3	858.0	862.7	869.8
22.5°	837.5	837.5	844.6	852.5	859.6
25°	818.6	819.4	830.5	840.7	848.6
27.5°	798.2	800.5	815.5	827.3	836.7
30°	776.1	780.1	796.6	813.9	823.4
32.5°	751.7	757.2	778.5	799.8	809.2
35°	725.0	734.4	760.4	783.2	795.0
37.5°	698.2	708.4	739.9	766.7	780.9
40°	668.3	684.0	717.9	749.4	764.3
42.5°	638.4	654.9	695.8	731.3	747.0
45°	606.1	626.6	673.0	711.6	727.3
47.5°	570.7	597.5	648.6	690.3	706.1
50°	536.8	567.5	624.2	667.5	684.0
52.5°	499.1	535.3	599.0	643.1	657.3
55°	461.3	503.8	571.5	614.0	629.7
57.5°	421.1	469.1	541.6	580.9	590.4
60°	379.4	436.1	507.7	543.1	543.1
62.5°	339.3	399.9	473.9	488.8	490.4
65°	293.6	363.7	436.9	432.1	425.9
67.5°	251.1	328.2	386.5	372.3	373.1
70°	209.4	289.7	331.4	323.5	325.1
72.5°	169.2	249.5	273.1	276.3	276.3
75°	132.2	210.2	225.1	228.3	229.8
77.5°	98.4	168.5	178.7	181.0	179.5
80°	70.1	114.9	131.5	129.9	130.7
82.5°	44.1	74.0	83.4	85.0	82.7
85°	25.2	40.9	41.7	41.7	40.9
87.5°	8.7	12.6	13.4	12.6	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)