

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: P225659

Luminaire Tested: **24AC-LD5-36-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: P225659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35755)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-36-RDP-UNV-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP 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: 3020.8 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

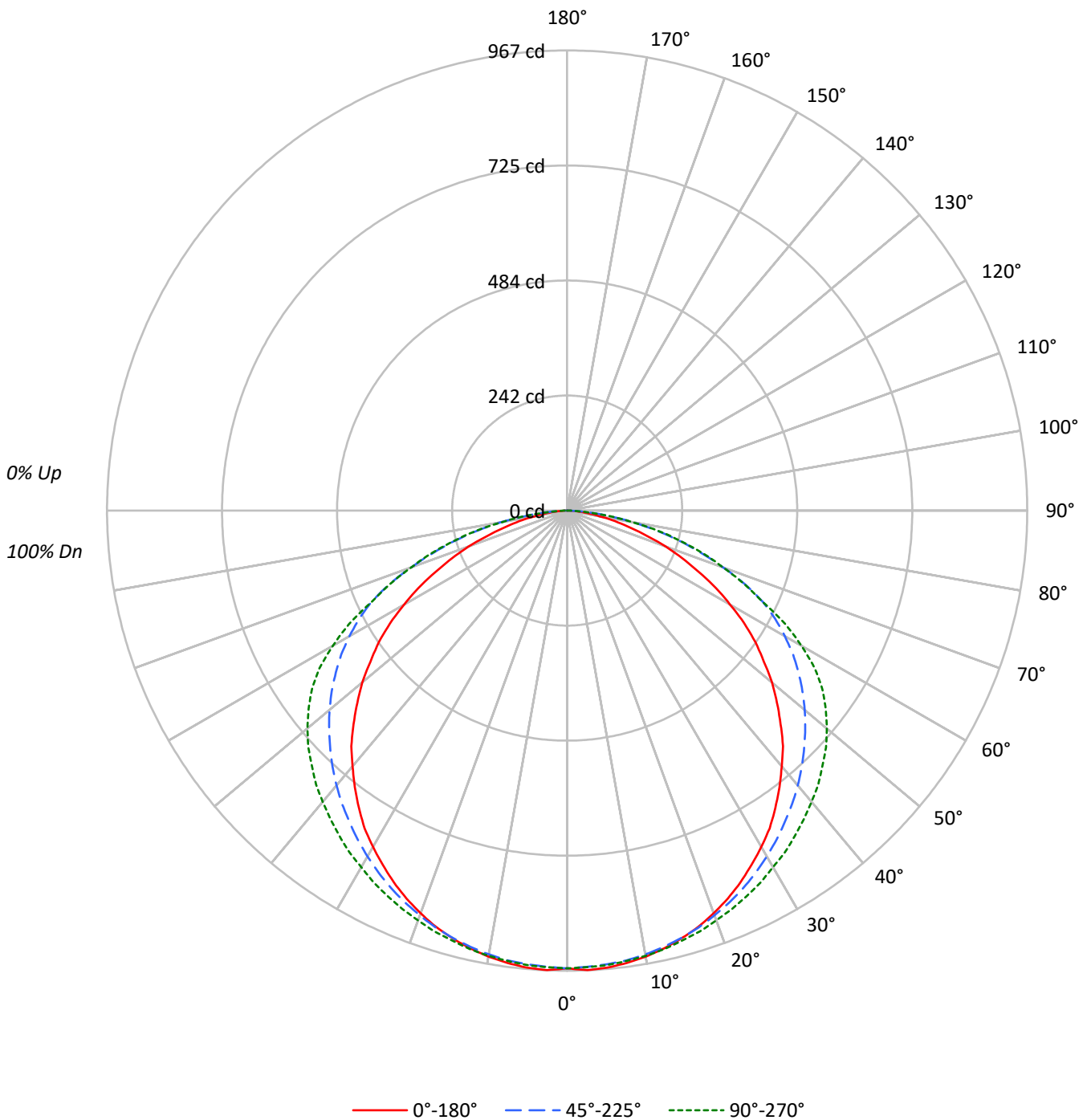
Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	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	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	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	30	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1294	1294	1294
5°	1302	1293	1295
10°	1300	1294	1298
15°	1296	1295	1303
20°	1289	1296	1312
25°	1280	1299	1326
30°	1268	1304	1344
35°	1253	1311	1371
40°	1232	1325	1403
45°	1207	1341	1444
50°	1176	1364	1491
55°	1134	1392	1536
60°	1065	1421	1531
65°	972	1443	1441
70°	864	1372	1372
75°	704	1264	1281
80°	543	1092	1073
85°	377	716	668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	3.0
10°-20°	262.8	8.7
20°-30°	404.0	13.4
30°-40°	499.8	16.5
40°-50°	541.1	17.9
50°-60°	519.0	17.2
60°-70°	411.9	13.6
70°-80°	236.6	7.8
80°-90°	54.3	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°	758.0	25.1
0°-40°	1257.8	41.6
0°-60°	2317.9	76.7
0°-90°	3020.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3020.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	964	960	957	956	959	92
15°	930	928	930	931	935	263
25°	862	864	875	886	893	397
35°	763	773	798	823	834	477
45°	634	659	704	744	759	489
55°	483	526	594	638	655	430
65°	305	378	453	460	453	303
75°	135	218	243	246	246	147
85°	24	42	46	44	43	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	961.9	961.9	961.9	961.9	961.9
2.5°	966.6	961.9	959.6	958.0	960.3
5°	964.3	959.6	957.2	955.6	958.8
7.5°	958.8	954.8	953.3	952.5	954.8
10°	951.7	947.8	947.0	946.2	950.1
12.5°	942.2	939.1	939.1	939.1	943.8
15°	930.4	928.1	929.6	931.2	935.2
17.5°	917.1	914.7	918.6	921.8	927.3
20°	900.5	900.5	905.2	910.0	916.3
22.5°	882.4	884.0	891.1	898.9	906.0
25°	862.0	864.3	875.3	886.4	893.4
27.5°	839.1	843.8	858.0	872.2	880.8
30°	816.3	821.0	839.1	856.4	865.1
32.5°	791.9	797.4	819.4	839.9	851.7
35°	762.8	773.0	798.2	822.6	834.4
37.5°	732.9	747.0	776.9	804.5	817.1
40°	701.4	718.7	754.1	785.6	799.0
42.5°	671.5	689.6	729.7	765.1	780.9
45°	634.5	658.9	704.5	743.9	758.8
47.5°	598.2	627.4	678.5	720.3	737.6
50°	562.0	594.3	651.8	697.4	712.4
52.5°	521.1	560.5	623.4	669.1	684.8
55°	483.3	525.8	593.5	638.4	654.9
57.5°	441.6	489.6	562.8	606.9	617.1
60°	395.9	452.6	528.2	566.0	569.1
62.5°	352.7	416.4	492.8	516.4	517.2
65°	305.4	377.8	453.4	459.7	452.6
67.5°	261.3	336.9	404.6	399.9	402.2
70°	219.6	298.3	348.7	351.1	348.7
72.5°	174.0	258.2	293.6	299.1	299.9
75°	135.4	218.0	243.2	245.6	246.4
77.5°	103.1	174.8	189.7	193.6	196.0
80°	70.1	122.0	140.9	142.5	138.5
82.5°	45.7	78.7	89.7	89.7	89.0
85°	24.4	42.5	46.4	44.1	43.3
87.5°	8.7	12.6	14.2	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)