

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: P225632

Luminaire Tested: **24AC-LD5-36-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: P225632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35753)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-36-UNV-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER
Light Source: (168)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

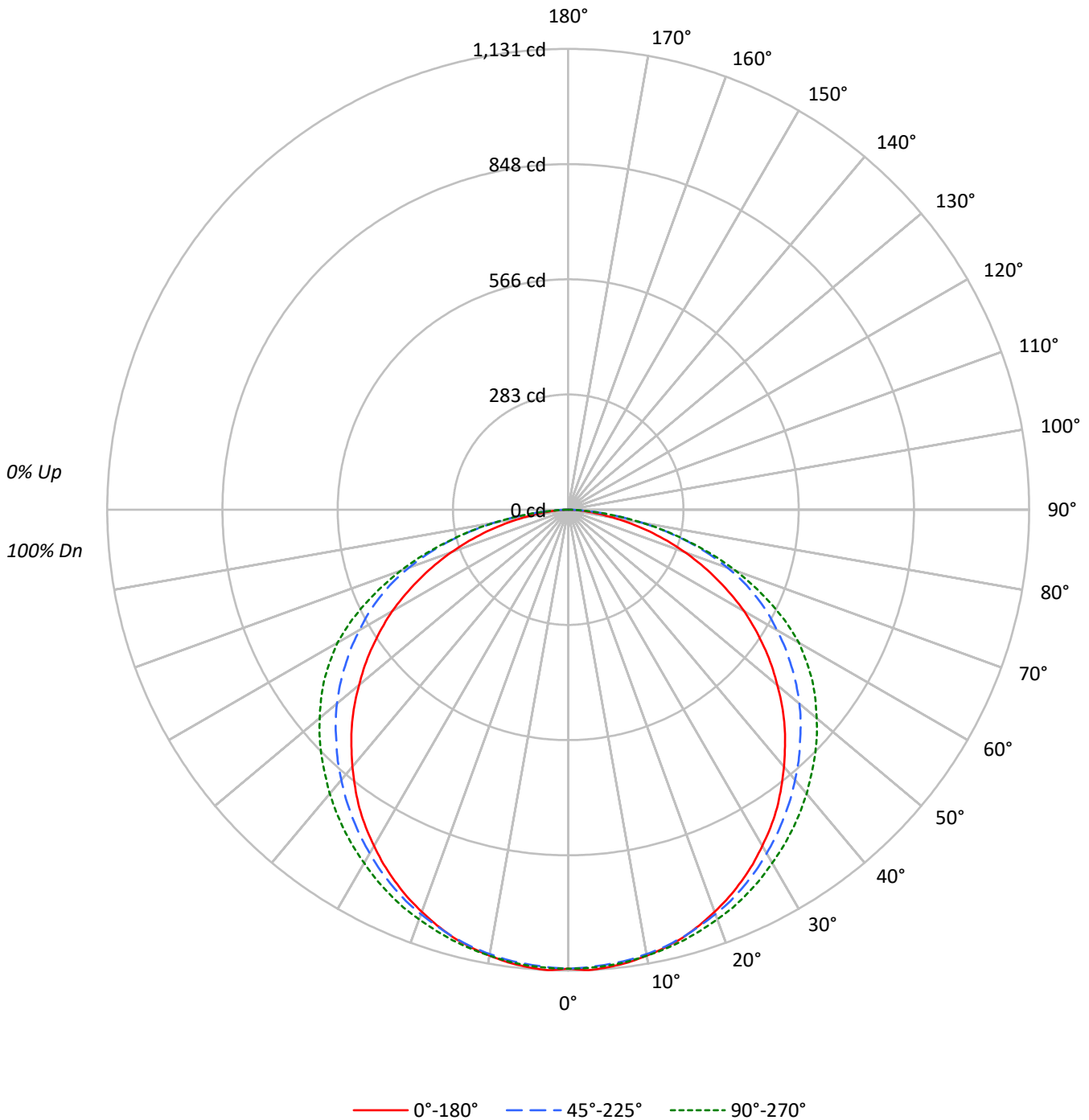
Lumens per Lamp: N/A
Luminaire Lumens: 3539.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1516	1516	1516
5°	1523	1513	1517
10°	1519	1513	1519
15°	1514	1513	1524
20°	1504	1513	1532
25°	1493	1513	1544
30°	1480	1513	1556
35°	1468	1515	1575
40°	1446	1521	1598
45°	1429	1531	1628
50°	1402	1551	1666
55°	1376	1568	1715
60°	1343	1591	1758
65°	1278	1627	1757
70°	1198	1635	1719
75°	1072	1588	1608
80°	860	1421	1427
85°	608	1033	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.0
10°-20°	306.9	8.7
20°-30°	470.3	13.3
30°-40°	578.0	16.3
40°-50°	620.0	17.5
50°-60°	592.9	16.8
60°-70°	487.7	13.8
70°-80°	299.9	8.5
80°-90°	76.5	2.2
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°	883.8	25.0
0°-40°	1461.9	41.3
0°-60°	2674.8	75.6
0°-90°	3539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1127	1122	1120	1119	1123	107
15°	1087	1083	1086	1088	1094	307
25°	1006	1006	1019	1030	1040	464
35°	894	899	923	946	959	558
45°	751	765	804	840	856	579
55°	586	615	668	713	731	524
65°	402	446	511	542	552	398
75°	206	268	305	311	309	218
85°	39	65	67	65	63	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1126.5	1126.5	1126.5	1126.5	1126.5
2.5°	1131.2	1125.7	1124.1	1121.8	1125.7
5°	1127.3	1122.5	1120.2	1118.6	1123.3
7.5°	1121.0	1116.2	1115.5	1113.9	1118.6
10°	1111.5	1107.6	1107.6	1106.8	1111.5
12.5°	1100.5	1095.8	1098.1	1098.9	1103.7
15°	1087.1	1083.2	1086.3	1087.9	1094.2
17.5°	1069.8	1066.7	1071.4	1076.1	1082.4
20°	1050.1	1049.3	1056.4	1062.7	1069.8
22.5°	1029.7	1029.7	1039.9	1047.0	1056.4
25°	1006.0	1006.0	1019.4	1030.4	1039.9
27.5°	980.9	982.4	998.2	1011.6	1021.8
30°	952.5	957.2	973.8	990.3	1001.3
32.5°	924.2	928.1	949.4	970.6	980.9
35°	893.5	899.0	922.6	946.2	958.8
37.5°	858.8	866.7	895.8	921.8	935.2
40°	823.4	833.6	865.9	895.8	910.0
42.5°	787.2	801.4	836.8	867.5	882.5
45°	751.0	765.2	804.5	839.9	855.7
47.5°	711.6	728.9	773.8	810.0	827.3
50°	669.9	690.4	740.8	778.5	795.9
52.5°	629.0	652.6	705.3	747.8	764.4
55°	586.5	614.8	668.3	713.2	731.3
57.5°	542.4	574.7	631.3	677.0	692.7
60°	499.1	531.4	591.2	637.6	653.4
62.5°	450.3	489.6	553.4	596.7	605.4
65°	401.5	446.3	510.9	541.6	551.8
67.5°	353.5	402.3	466.8	488.9	495.1
70°	304.6	355.0	415.6	433.7	436.9
72.5°	255.1	311.7	362.9	373.1	374.7
75°	206.2	267.6	305.4	310.9	309.4
77.5°	158.2	218.8	245.6	248.0	248.8
80°	111.0	167.7	183.4	184.2	184.2
82.5°	71.6	116.5	124.4	122.8	124.4
85°	39.4	64.6	66.9	64.6	63.0
87.5°	12.6	18.9	20.5	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)