

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: P225663

Luminaire Tested: **24AC-LD5-55-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: P225663
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-LD5-55-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: 4571.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.34 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

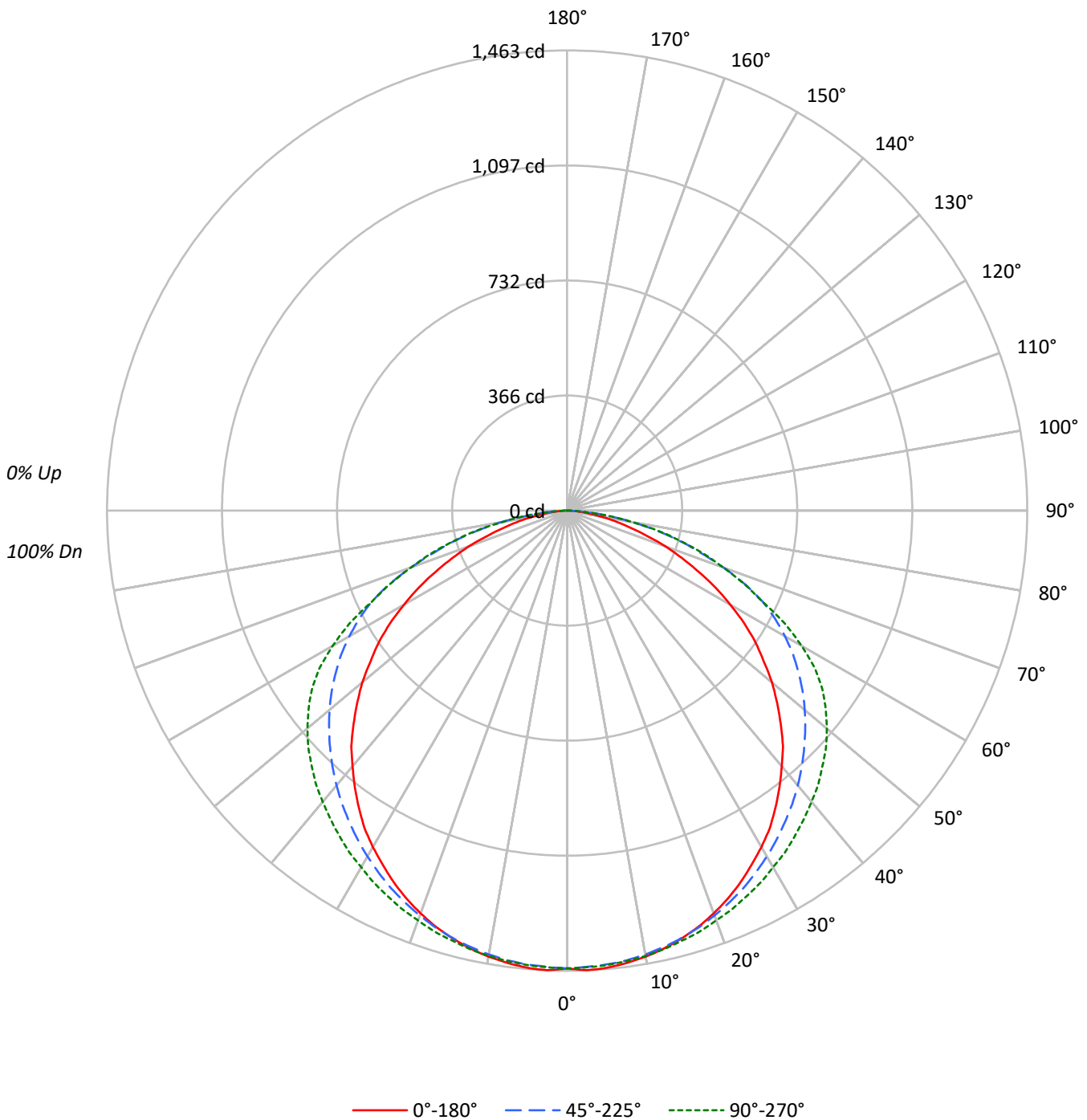
Input Watts (W): 49.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1958	1958	1958
5°	1971	1956	1959
10°	1968	1958	1964
15°	1961	1959	1971
20°	1951	1961	1985
25°	1936	1966	2007
30°	1919	1973	2034
35°	1896	1984	2074
40°	1864	2004	2124
45°	1827	2029	2185
50°	1780	2065	2256
55°	1716	2107	2325
60°	1612	2151	2317
65°	1472	2184	2181
70°	1307	2076	2076
75°	1065	1914	1938
80°	821	1652	1624
85°	570	1085	1011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	3.0
10°-20°	397.7	8.7
20°-30°	611.3	13.4
30°-40°	756.3	16.5
40°-50°	818.8	17.9
50°-60°	785.3	17.2
60°-70°	623.3	13.6
70°-80°	358.0	7.8
80°-90°	82.2	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°	1146.9	25.1
0°-40°	1903.2	41.6
0°-60°	3507.4	76.7
0°-90°	4571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1459	1452	1448	1446	1451	139
15°	1408	1404	1407	1409	1415	397
25°	1304	1308	1324	1341	1352	601
35°	1154	1170	1208	1245	1263	722
45°	960	997	1066	1126	1148	741
55°	731	796	898	966	991	651
65°	462	572	686	696	685	459
75°	205	330	368	372	373	222
85°	37	64	70	67	66	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.6	1455.6	1455.6	1455.6	1455.6
2.5°	1462.7	1455.6	1452.0	1449.6	1453.2
5°	1459.1	1452.0	1448.4	1446.0	1450.8
7.5°	1450.8	1444.8	1442.5	1441.3	1444.8
10°	1440.1	1434.1	1432.9	1431.7	1437.7
12.5°	1425.8	1421.0	1421.0	1421.0	1428.2
15°	1407.9	1404.3	1406.7	1409.1	1415.1
17.5°	1387.7	1384.1	1390.1	1394.8	1403.2
20°	1362.7	1362.7	1369.8	1377.0	1386.5
22.5°	1335.3	1337.6	1348.4	1360.3	1371.0
25°	1304.3	1307.9	1324.5	1341.2	1351.9
27.5°	1269.7	1276.9	1298.3	1319.8	1332.9
30°	1235.2	1242.4	1269.7	1296.0	1309.1
32.5°	1198.3	1206.6	1240.0	1270.9	1288.8
35°	1154.2	1169.7	1207.8	1244.7	1262.6
37.5°	1108.9	1130.4	1175.6	1217.3	1236.4
40°	1061.3	1087.5	1141.1	1188.8	1209.0
42.5°	1016.0	1043.4	1104.2	1157.8	1181.6
45°	960.1	997.0	1066.1	1125.6	1148.3
47.5°	905.3	949.3	1026.8	1089.9	1116.1
50°	850.5	899.3	986.3	1055.3	1078.0
52.5°	788.5	848.1	943.4	1012.5	1036.3
55°	731.4	795.7	898.1	966.0	991.0
57.5°	668.2	740.9	851.7	918.4	933.8
60°	599.1	684.9	799.3	856.4	861.2
62.5°	533.6	630.1	745.6	781.4	782.6
65°	462.2	571.7	686.1	695.6	684.9
67.5°	395.5	509.8	612.2	605.1	608.7
70°	332.3	451.4	527.7	531.2	527.7
72.5°	263.2	390.7	444.3	452.6	453.8
75°	204.9	329.9	368.1	371.6	372.8
77.5°	156.0	264.4	287.1	293.0	296.6
80°	106.0	184.6	213.2	215.6	209.6
82.5°	69.1	119.1	135.8	135.8	134.6
85°	36.9	64.3	70.3	66.7	65.5
87.5°	13.1	19.1	21.4	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)