

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: P225699

Luminaire Tested: **24AC-LD5-55-SQP-UNV-L835-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: P225699  
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-LD5-55-SQP-UNV-L835-CD1-U  
Description: METALUX Accord 2X4 LED TROFFER WITH SQP LENS  
Light Source: (168)3500K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4523.2 lumens  
Efficiency: N/A  
Efficacy: 92.0 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

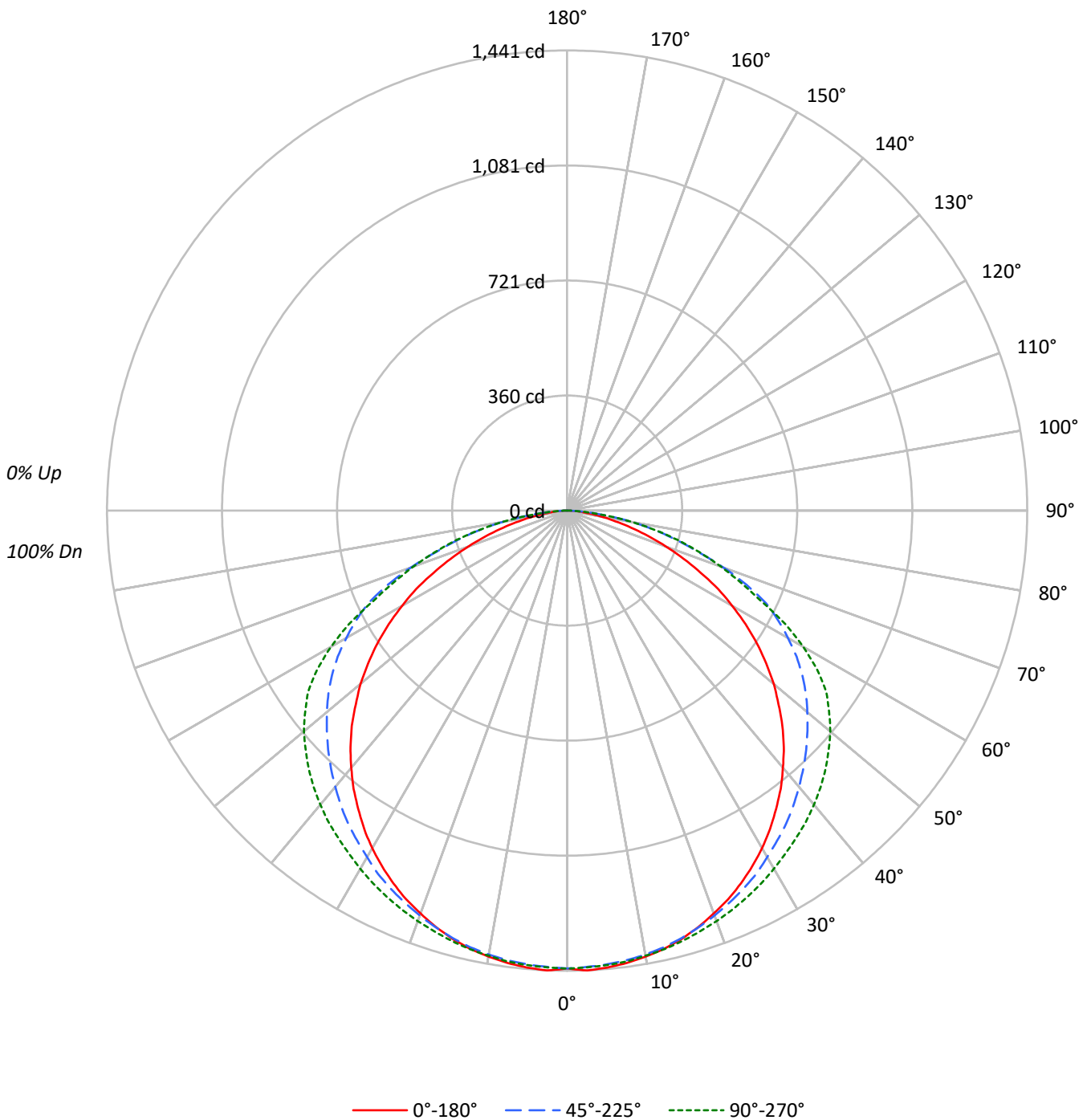
Input Watts (W): 49.15  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1929	1929	1929
5°	1940	1927	1930
10°	1937	1929	1934
15°	1934	1930	1944
20°	1922	1933	1959
25°	1912	1940	1982
30°	1897	1947	2012
35°	1873	1965	2054
40°	1847	1984	2112
45°	1814	2015	2177
50°	1768	2056	2253
55°	1702	2109	2324
60°	1606	2149	2299
65°	1471	2188	2133
70°	1296	2051	2012
75°	1081	1841	1880
80°	854	1602	1593
85°	611	1013	994



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.9	3.0
10°-20°	391.8	8.7
20°-30°	603.1	13.3
30°-40°	748.1	16.5
40°-50°	812.8	18.0
50°-60°	783.0	17.3
60°-70°	617.8	13.7
70°-80°	350.2	7.7
80°-90°	80.3	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°	1130.8	25.0
0°-40°	1879.0	41.5
0°-60°	3474.8	76.8
0°-90°	4523.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4523.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1436	1430	1427	1424	1429	137
15°	1388	1384	1386	1388	1396	392
25°	1288	1289	1306	1323	1335	593
35°	1140	1155	1196	1232	1251	714
45°	954	986	1059	1120	1144	734
55°	726	792	899	966	991	647
65°	462	572	687	680	670	458
75°	208	331	354	359	362	224
85°	40	64	66	66	64	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1434.0	1434.0	1434.0	1434.0	1434.0
2.5°	1441.4	1434.0	1430.3	1427.8	1431.5
5°	1436.5	1430.3	1426.6	1424.1	1429.1
7.5°	1429.1	1422.9	1420.4	1417.9	1424.1
10°	1417.9	1413.0	1411.7	1410.5	1415.4
12.5°	1405.5	1400.6	1400.6	1401.8	1406.8
15°	1388.2	1384.5	1385.7	1388.2	1395.6
17.5°	1367.1	1363.4	1368.4	1373.3	1382.0
20°	1342.4	1342.4	1349.8	1357.2	1368.4
22.5°	1317.6	1317.6	1328.7	1341.1	1352.3
25°	1287.9	1289.1	1306.5	1322.6	1334.9
27.5°	1255.7	1259.4	1282.9	1301.5	1316.4
30°	1221.0	1227.2	1253.2	1280.4	1295.3
32.5°	1182.6	1191.3	1224.7	1258.2	1273.0
35°	1140.5	1155.4	1196.2	1232.2	1250.7
37.5°	1098.4	1114.5	1164.0	1206.1	1228.4
40°	1051.4	1076.1	1129.4	1178.9	1202.4
42.5°	1004.3	1030.3	1094.7	1150.4	1175.2
45°	953.5	985.7	1058.8	1119.5	1144.2
47.5°	897.8	939.9	1020.4	1086.0	1110.8
50°	844.6	892.8	982.0	1050.1	1076.1
52.5°	785.1	842.1	942.4	1011.7	1034.0
55°	725.7	792.5	899.0	965.9	990.7
57.5°	662.5	738.1	852.0	913.9	928.8
60°	596.9	686.0	798.7	854.5	854.5
62.5°	533.7	629.1	745.5	769.0	771.5
65°	461.9	572.1	687.3	679.9	669.9
67.5°	395.0	516.4	608.0	585.7	587.0
70°	329.4	455.7	521.3	509.0	511.4
72.5°	266.2	392.6	429.7	434.7	434.7
75°	208.0	330.6	354.2	359.1	361.6
77.5°	154.8	265.0	281.1	284.8	282.3
80°	110.2	180.8	206.8	204.3	205.6
82.5°	69.3	116.4	131.3	133.7	130.0
85°	39.6	64.4	65.6	65.6	64.4
87.5°	13.6	19.8	21.1	19.8	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)