

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: P#

Luminaire Tested: **24CZ-LD5-45SE-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25689)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45SE-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4572.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

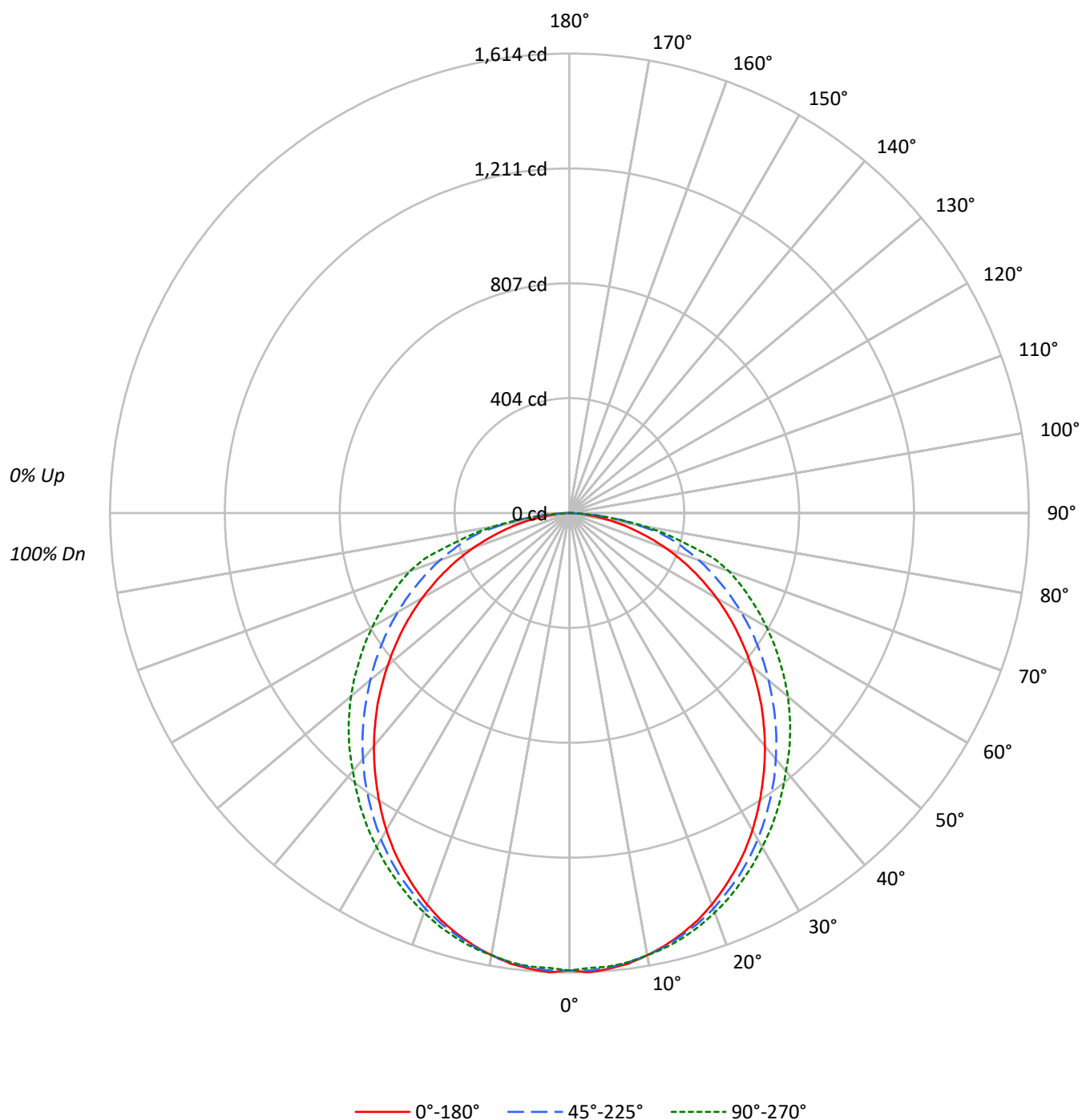
Input Watts (W): 39.91
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		26
10	52	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2162	2162	2162
5°	2165	2154	2150
10°	2145	2135	2136
15°	2116	2108	2123
20°	2077	2078	2100
25°	2027	2039	2074
30°	1970	1995	2046
35°	1903	1946	2021
40°	1838	1896	1995
45°	1770	1846	1987
50°	1695	1797	1979
55°	1620	1757	1972
60°	1540	1717	1980
65°	1447	1681	2004
70°	1328	1661	2060
75°	1161	1654	1894
80°	950	1455	1606
85°	653	942	917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	3.3
10°-20°	432.4	9.5
20°-30°	646.4	14.1
30°-40°	766.5	16.8
40°-50°	788.3	17.2
50°-60°	721.1	15.8
60°-70°	581.5	12.7
70°-80°	377.6	8.3
80°-90°	106.2	2.3
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°	1230.8	26.9
0°-40°	1997.3	43.7
0°-60°	3506.6	76.7
0°-90°	4572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1607	1607	1607	1607	1607	
5°	1607	1596	1602	1599	1599	152
15°	1529	1521	1535	1541	1544	431
25°	1381	1381	1408	1418	1429	636
35°	1179	1190	1229	1254	1274	738
45°	953	970	1022	1068	1096	735
55°	715	739	806	869	900	640
65°	479	507	588	664	697	474
75°	244	289	381	428	432	260
85°	54	90	98	96	93	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1614.4	1602.0	1608.2	1605.1	1598.9
5°	1606.6	1595.8	1602.0	1598.9	1598.9
7.5°	1595.8	1584.9	1591.1	1591.1	1591.1
10°	1577.1	1567.8	1577.1	1577.1	1577.1
12.5°	1555.3	1547.5	1558.4	1560.0	1563.1
15°	1528.9	1521.1	1535.1	1541.3	1544.4
17.5°	1499.3	1493.1	1508.7	1516.4	1521.1
20°	1463.6	1458.9	1479.1	1486.9	1493.1
22.5°	1423.1	1423.1	1443.3	1452.7	1463.6
25°	1381.1	1381.1	1407.6	1418.5	1429.3
27.5°	1336.0	1337.6	1367.1	1382.7	1393.6
30°	1286.2	1292.5	1323.6	1342.2	1354.7
32.5°	1233.4	1241.1	1276.9	1300.2	1315.8
35°	1178.9	1189.8	1228.7	1253.6	1273.8
37.5°	1124.5	1138.5	1180.5	1208.5	1228.7
40°	1068.5	1084.1	1127.6	1160.3	1183.6
42.5°	1011.0	1028.1	1076.3	1113.6	1141.6
45°	953.4	970.5	1021.8	1068.5	1096.5
47.5°	892.8	913.0	967.4	1021.8	1049.8
50°	833.7	855.4	913.0	972.1	1001.6
52.5°	774.5	799.4	860.1	922.3	951.9
55°	715.4	738.8	805.7	869.4	900.5
57.5°	656.3	681.2	751.2	818.1	850.8
60°	597.2	623.7	696.8	766.8	799.4
62.5°	536.6	564.6	642.3	715.4	748.1
65°	479.0	507.0	587.9	664.1	696.8
67.5°	419.9	451.0	535.0	612.8	647.0
70°	360.8	395.1	483.7	561.5	595.7
72.5°	301.7	340.6	430.8	508.6	533.5
75°	244.2	289.3	381.1	427.7	432.4
77.5°	191.3	238.0	325.1	343.7	353.1
80°	140.0	191.3	244.2	267.5	266.0
82.5°	93.3	146.2	175.8	178.9	175.8
85°	54.4	90.2	98.0	96.4	93.3
87.5°	23.3	35.8	31.1	26.4	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)