

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: P260882

Luminaire Tested: **24CZ-LD5-55-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4349.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

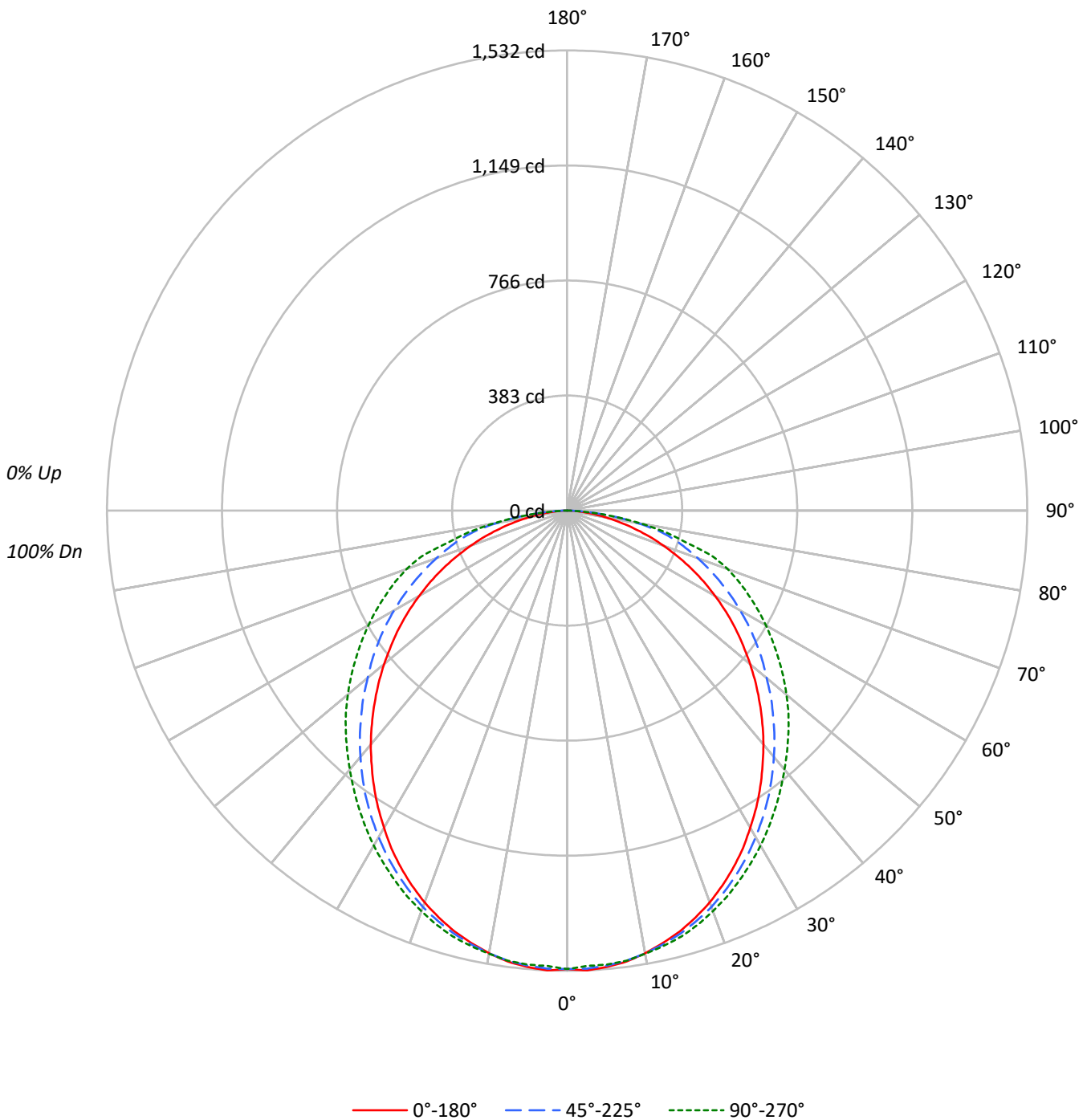
Input Watts (W): 39.99
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	90	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	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2054	2054	2054
5°	2059	2053	2049
10°	2045	2045	2047
15°	2020	2031	2045
20°	1987	2011	2032
25°	1945	1983	2016
30°	1895	1950	2001
35°	1842	1918	1986
40°	1786	1880	1977
45°	1725	1845	1983
50°	1665	1814	1995
55°	1603	1802	2016
60°	1531	1791	2056
65°	1450	1792	2124
70°	1341	1822	2238
75°	1200	1904	2129
80°	1003	1823	1949
85°	758	1402	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	3.3
10°-20°	410.5	9.4
20°-30°	613.7	14.1
30°-40°	728.0	16.7
40°-50°	749.3	17.2
50°-60°	687.4	15.8
60°-70°	555.8	12.8
70°-80°	360.7	8.3
80°-90°	99.5	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°	1168.4	26.9
0°-40°	1896.4	43.6
0°-60°	3333.1	76.6
0°-90°	4349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1525	1514	1520	1519	1517	145
15°	1450	1444	1458	1464	1468	409
25°	1310	1312	1336	1348	1358	603
35°	1121	1130	1167	1193	1209	701
45°	907	922	969	1016	1042	700
55°	684	704	768	831	859	611
65°	456	482	563	637	667	450
75°	231	274	366	410	410	245
85°	49	83	91	88	86	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1526.3	1526.3	1526.3	1526.3	1526.3
2.5°	1532.2	1520.3	1526.3	1524.8	1517.3
5°	1524.8	1514.4	1520.3	1518.8	1517.3
7.5°	1514.4	1503.9	1511.4	1509.9	1511.4
10°	1496.5	1487.6	1496.5	1498.0	1498.0
12.5°	1474.2	1466.7	1478.6	1481.6	1484.6
15°	1450.3	1444.4	1457.8	1463.7	1468.2
17.5°	1420.6	1416.1	1432.5	1439.9	1445.9
20°	1387.8	1386.3	1404.2	1411.6	1419.1
22.5°	1350.6	1350.6	1371.4	1380.3	1390.8
25°	1310.4	1311.9	1335.7	1347.6	1358.0
27.5°	1267.2	1268.7	1297.0	1311.9	1323.8
30°	1219.5	1225.5	1255.3	1274.6	1288.0
32.5°	1171.9	1179.3	1212.1	1234.4	1249.3
35°	1121.3	1130.2	1167.4	1192.7	1209.1
37.5°	1069.1	1079.6	1119.8	1148.1	1167.4
40°	1017.0	1028.9	1070.6	1103.4	1125.7
42.5°	961.9	975.3	1021.5	1060.2	1084.0
45°	906.8	921.7	969.4	1015.5	1042.3
47.5°	851.7	869.6	920.2	970.9	999.2
50°	795.2	813.0	866.6	924.7	953.0
52.5°	738.6	759.4	819.0	878.5	906.8
55°	683.5	704.3	768.3	830.9	859.2
57.5°	626.9	647.7	717.7	783.2	811.5
60°	568.8	592.6	665.6	732.6	763.9
62.5°	512.2	537.5	615.0	686.5	716.2
65°	455.6	482.5	562.9	637.3	667.1
67.5°	397.6	428.8	512.2	588.2	619.4
70°	341.0	375.2	463.1	539.0	568.8
72.5°	285.9	323.1	414.0	491.4	509.3
75°	230.8	274.0	366.3	409.5	409.5
77.5°	178.7	226.3	312.7	329.1	338.0
80°	129.5	181.7	235.3	254.6	251.6
82.5°	86.4	138.5	168.3	168.3	163.8
85°	49.1	83.4	90.8	87.9	86.4
87.5°	20.8	31.3	28.3	22.3	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)