

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: P263533

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4900.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

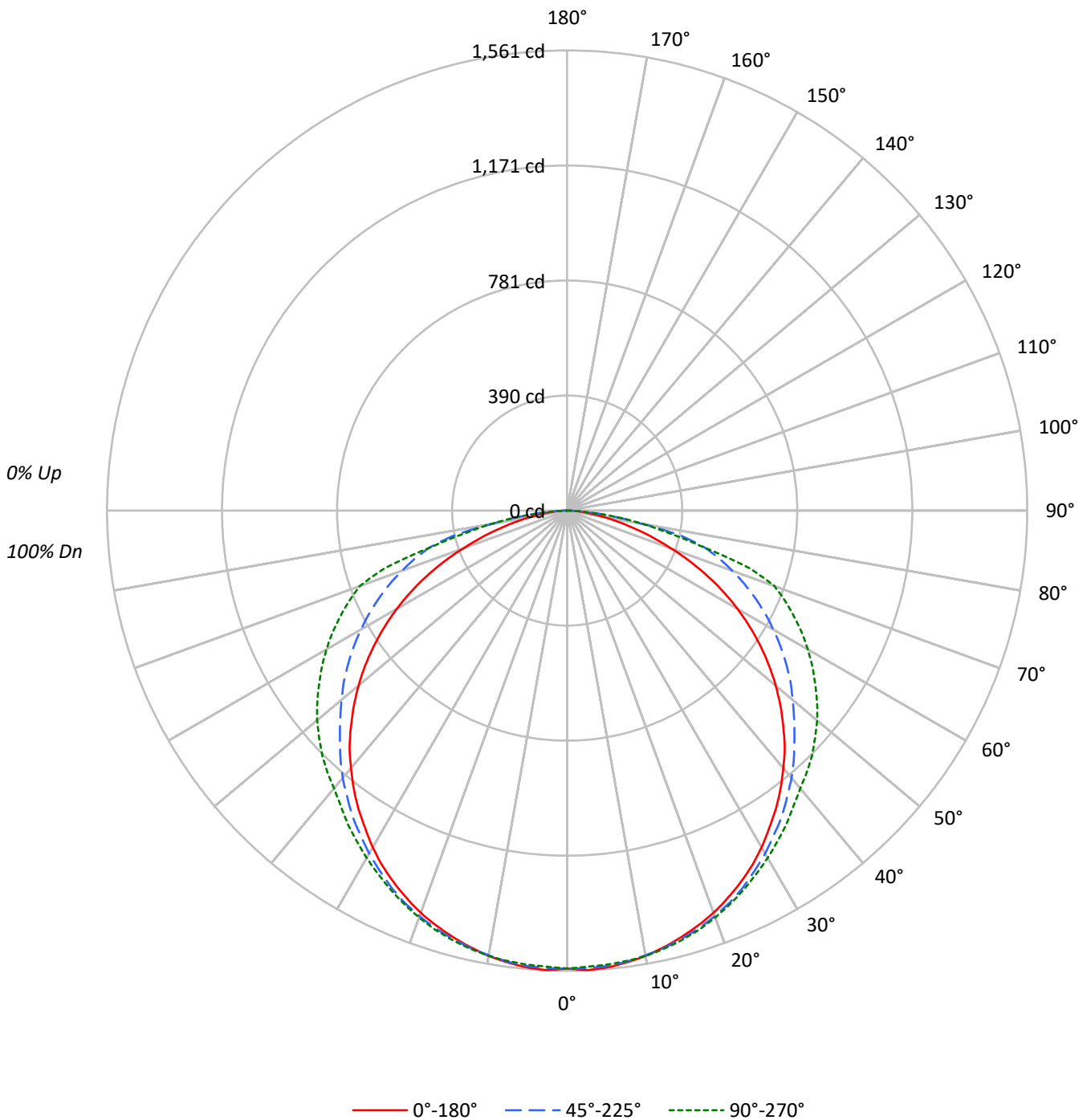
Input Watts (W): 53.661
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2090	2090	2090
5°	2101	2095	2088
10°	2096	2093	2096
15°	2087	2093	2100
20°	2079	2096	2103
25°	2066	2095	2106
30°	2050	2087	2114
35°	2029	2084	2132
40°	2004	2080	2161
45°	1974	2074	2235
50°	1934	2090	2317
55°	1879	2127	2410
60°	1798	2174	2538
65°	1674	2242	2703
70°	1480	2344	2941
75°	1241	2508	2470
80°	990	1981	2056
85°	783	1340	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	3.0
10°-20°	424.0	8.7
20°-30°	647.6	13.2
30°-40°	791.8	16.2
40°-50°	847.5	17.3
50°-60°	812.9	16.6
60°-70°	686.4	14.0
70°-80°	438.7	9.0
80°-90°	103.7	2.1
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°	1219.0	24.9
0°-40°	2010.8	41.0
0°-60°	3671.2	74.9
0°-90°	4900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1556	1546	1551	1548	1546	148
15°	1498	1493	1503	1508	1508	423
25°	1392	1389	1411	1416	1418	641
35°	1235	1245	1269	1286	1298	772
45°	1037	1054	1090	1141	1175	800
55°	801	827	907	989	1028	715
65°	526	576	704	803	849	519
75°	239	340	482	492	475	257
85°	51	84	87	84	80	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.3	1553.3	1553.3	1553.3	1553.3
2.5°	1560.6	1550.9	1553.3	1553.3	1548.5
5°	1555.8	1546.1	1550.9	1548.5	1546.1
7.5°	1546.1	1538.9	1543.7	1543.7	1541.3
10°	1534.0	1526.8	1531.6	1534.0	1534.0
12.5°	1517.2	1512.3	1519.6	1519.6	1522.0
15°	1497.9	1493.0	1502.7	1507.5	1507.5
17.5°	1476.2	1473.7	1485.8	1488.2	1490.6
20°	1452.0	1449.6	1464.1	1464.1	1468.9
22.5°	1423.1	1420.7	1440.0	1440.0	1444.8
25°	1391.7	1389.3	1411.0	1415.9	1418.3
27.5°	1358.0	1355.6	1377.3	1384.5	1389.3
30°	1319.4	1319.4	1343.5	1353.1	1360.4
32.5°	1276.0	1283.2	1304.9	1319.4	1329.0
35°	1235.0	1244.6	1268.7	1285.6	1297.7
37.5°	1189.1	1198.8	1225.3	1247.0	1261.5
40°	1140.9	1152.9	1184.3	1208.4	1230.1
42.5°	1092.6	1104.7	1138.5	1174.7	1203.6
45°	1037.2	1054.1	1090.2	1140.9	1174.7
47.5°	981.7	998.6	1044.4	1107.1	1140.9
50°	923.8	943.1	998.6	1070.9	1107.1
52.5°	863.5	885.2	955.2	1032.3	1068.5
55°	800.8	827.3	906.9	988.9	1027.5
57.5°	735.7	764.6	858.7	945.5	986.5
60°	668.1	704.3	808.0	899.7	943.1
62.5°	598.2	641.6	757.4	851.4	897.3
65°	525.8	576.5	704.3	803.2	849.0
67.5°	451.0	518.6	651.2	755.0	800.8
70°	376.3	455.9	595.8	701.9	747.7
72.5°	306.3	398.0	540.3	639.2	648.8
75°	238.8	340.1	482.4	492.1	475.2
77.5°	178.5	282.2	398.0	354.6	352.2
80°	127.8	226.7	255.7	262.9	265.3
82.5°	84.4	171.3	166.4	171.3	168.8
85°	50.7	84.4	86.8	84.4	79.6
87.5°	24.1	31.4	24.1	21.7	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)