

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: P260578

Luminaire Tested: **24CZ-LD5-55-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260578
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-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5550.0 lumens
Efficiency: N/A
Efficacy: 138.5 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

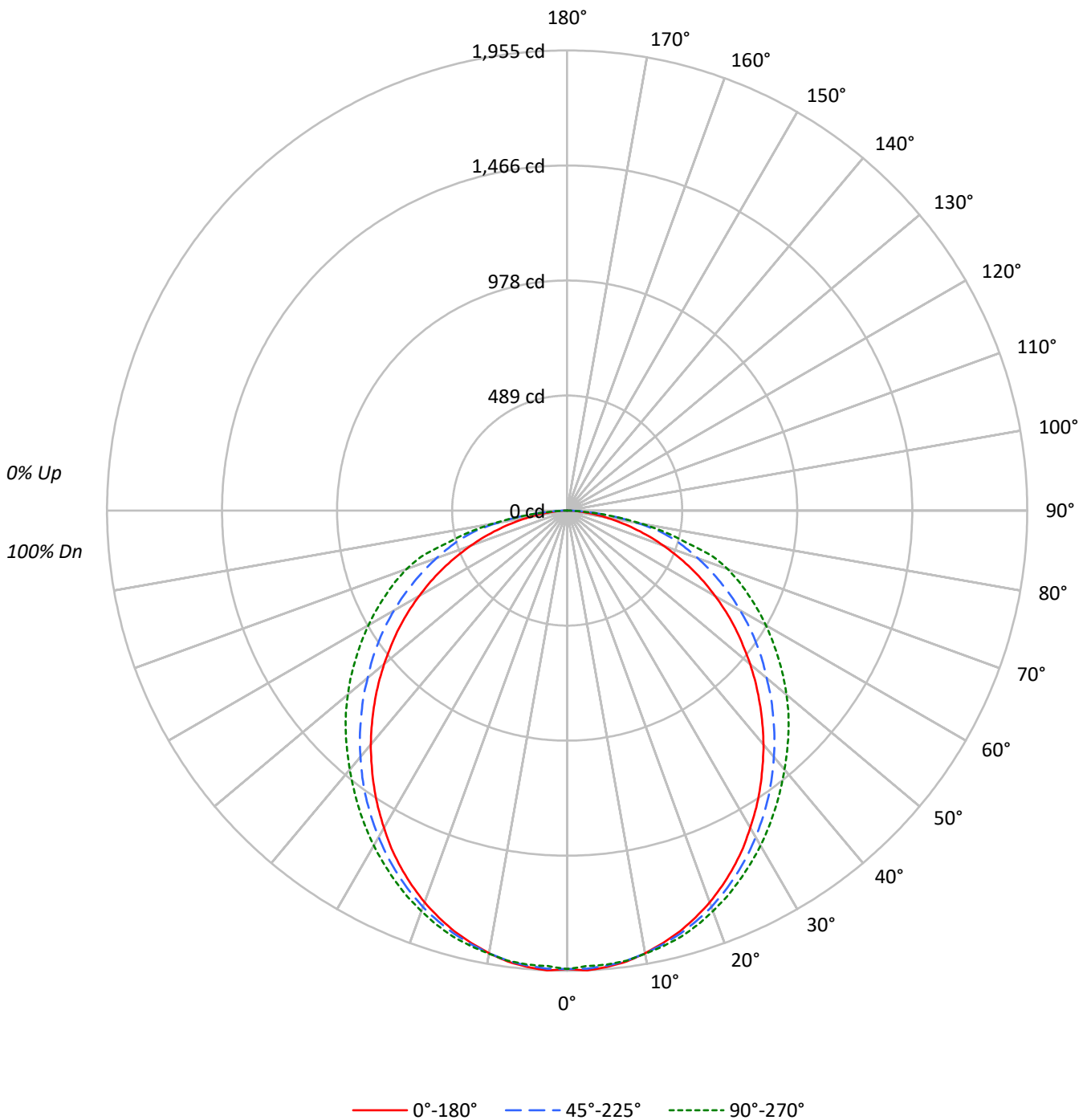
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2621	2621	2621
5°	2628	2620	2615
10°	2609	2609	2612
15°	2578	2591	2610
20°	2536	2566	2593
25°	2483	2530	2573
30°	2418	2489	2554
35°	2350	2447	2534
40°	2280	2400	2523
45°	2202	2354	2531
50°	2124	2315	2546
55°	2046	2300	2572
60°	1953	2286	2623
65°	1851	2287	2710
70°	1712	2325	2856
75°	1531	2430	2717
80°	1281	2326	2488
85°	968	1789	1701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	3.3
10°-20°	523.8	9.4
20°-30°	783.1	14.1
30°-40°	929.0	16.7
40°-50°	956.2	17.2
50°-60°	877.2	15.8
60°-70°	709.3	12.8
70°-80°	460.3	8.3
80°-90°	126.9	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°	1491.0	26.9
0°-40°	2420.1	43.6
0°-60°	4253.5	76.6
0°-90°	5550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1946	1933	1940	1938	1936	185
15°	1851	1843	1860	1868	1874	521
25°	1672	1674	1704	1720	1733	770
35°	1431	1442	1490	1522	1543	895
45°	1157	1176	1237	1296	1330	893
55°	872	899	980	1060	1096	779
65°	582	616	718	813	851	575
75°	294	350	468	523	523	313
85°	63	106	116	112	110	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1947.8	1947.8	1947.8	1947.8	1947.8
2.5°	1955.4	1940.2	1947.8	1945.9	1936.4
5°	1945.9	1932.6	1940.2	1938.3	1936.4
7.5°	1932.6	1919.3	1928.8	1926.9	1928.8
10°	1909.8	1898.4	1909.8	1911.7	1911.7
12.5°	1881.3	1871.8	1887.0	1890.8	1894.6
15°	1850.8	1843.2	1860.3	1868.0	1873.7
17.5°	1812.8	1807.1	1828.0	1837.5	1845.1
20°	1771.0	1769.1	1791.9	1801.4	1810.9
22.5°	1723.5	1723.5	1750.1	1761.5	1774.8
25°	1672.2	1674.1	1704.5	1719.7	1733.0
27.5°	1617.1	1619.0	1655.1	1674.1	1689.3
30°	1556.3	1563.9	1601.9	1626.6	1643.7
32.5°	1495.5	1505.0	1546.8	1575.3	1594.3
35°	1430.9	1442.3	1489.8	1522.1	1543.0
37.5°	1364.4	1377.7	1429.0	1465.1	1489.8
40°	1297.9	1313.1	1366.3	1408.1	1436.6
42.5°	1227.6	1244.7	1303.6	1353.0	1383.4
45°	1157.3	1176.3	1237.1	1296.0	1330.2
47.5°	1086.9	1109.7	1174.4	1239.0	1275.1
50°	1014.7	1037.5	1105.9	1180.1	1216.2
52.5°	942.5	969.1	1045.1	1121.2	1157.3
55°	872.2	898.8	980.5	1060.3	1096.4
57.5°	800.0	826.6	915.9	999.5	1035.6
60°	725.9	756.3	849.4	934.9	974.8
62.5°	653.7	686.0	784.8	876.0	914.0
65°	581.5	615.7	718.3	813.3	851.3
67.5°	507.4	547.3	653.7	750.6	790.5
70°	435.2	478.9	591.0	687.9	725.9
72.5°	364.8	412.4	528.3	627.1	649.9
75°	294.5	349.6	467.5	522.6	522.6
77.5°	228.0	288.8	399.1	420.0	431.4
80°	165.3	231.8	300.2	324.9	321.1
82.5°	110.2	176.7	214.7	214.7	209.0
85°	62.7	106.4	115.9	112.1	110.2
87.5°	26.6	39.9	36.1	28.5	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)