

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-LD5-55SE-UNV-L850-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-LD5-55SE-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6113.6 lumens
Efficiency: N/A
Efficacy: 111.8 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

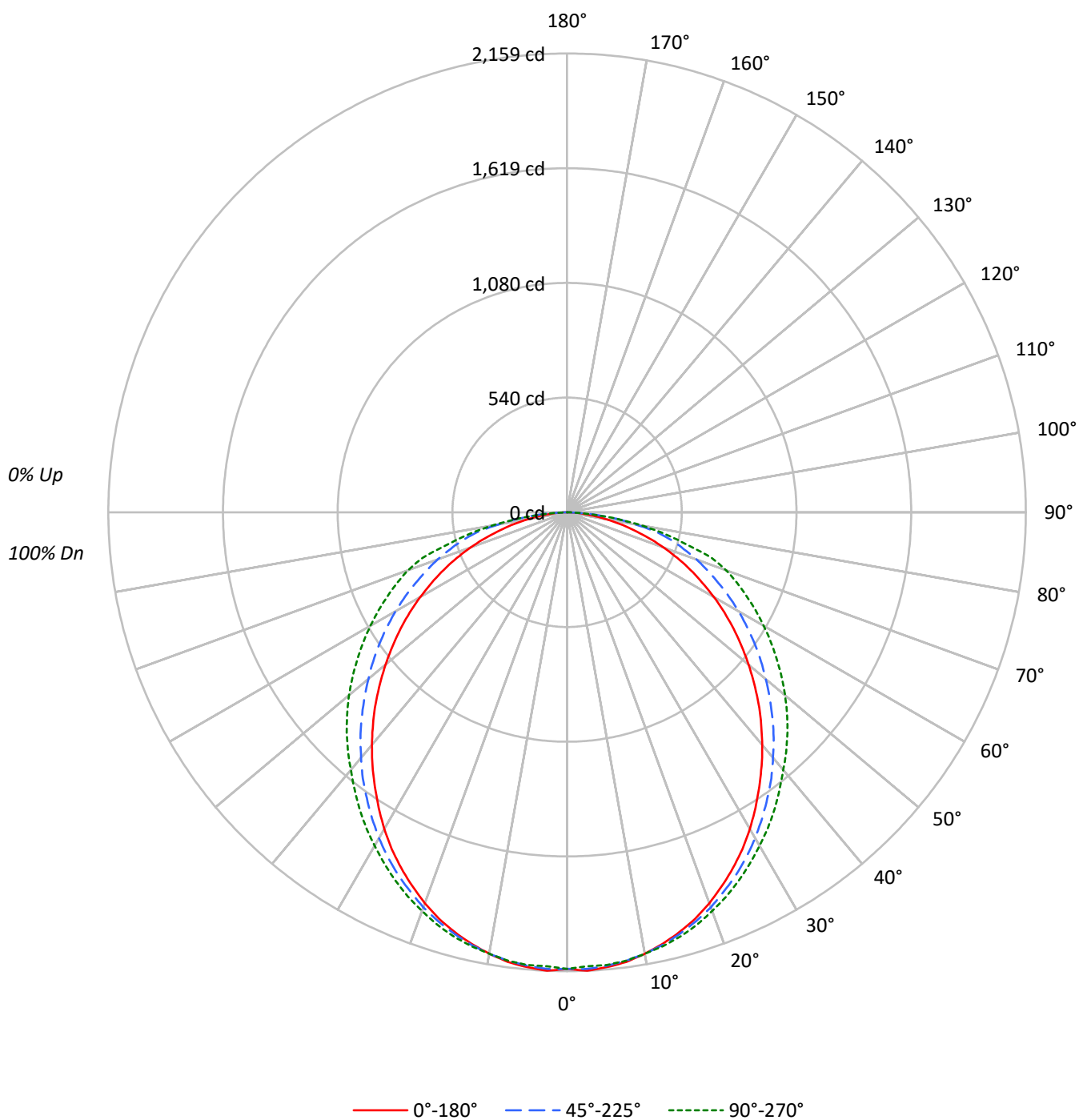
Input Watts (W): 54.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2891	2891	2891
5°	2895	2880	2875
10°	2869	2855	2856
15°	2829	2819	2839
20°	2777	2778	2808
25°	2710	2727	2773
30°	2634	2668	2735
35°	2545	2602	2703
40°	2458	2535	2668
45°	2367	2469	2657
50°	2266	2403	2646
55°	2167	2349	2637
60°	2060	2296	2647
65°	1936	2247	2679
70°	1776	2221	2755
75°	1552	2211	2533
80°	1270	1945	2147
85°	874	1259	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	3.3
10°-20°	578.3	9.5
20°-30°	864.4	14.1
30°-40°	1025.0	16.8
40°-50°	1054.1	17.2
50°-60°	964.2	15.8
60°-70°	777.6	12.7
70°-80°	504.9	8.3
80°-90°	142.1	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°	1645.8	26.9
0°-40°	2670.8	43.7
0°-60°	4689.1	76.7
0°-90°	6113.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6113.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2148	2134	2142	2138	2138	204
15°	2044	2034	2053	2061	2065	576
25°	1847	1847	1882	1897	1911	850
35°	1576	1591	1643	1676	1703	986
45°	1275	1298	1366	1429	1466	983
55°	957	988	1077	1163	1204	856
65°	641	678	786	888	932	633
75°	326	387	510	572	578	348
85°	73	121	131	129	125	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2148.4	2148.4	2148.4	2148.4	2148.4
2.5°	2158.8	2142.1	2150.5	2146.3	2138.0
5°	2148.4	2133.8	2142.1	2138.0	2138.0
7.5°	2133.8	2119.3	2127.6	2127.6	2127.6
10°	2108.9	2096.4	2108.9	2108.9	2108.9
12.5°	2079.8	2069.4	2083.9	2086.0	2090.2
15°	2044.4	2034.0	2052.7	2061.0	2065.2
17.5°	2004.9	1996.6	2017.4	2027.8	2034.0
20°	1957.1	1950.8	1977.8	1988.2	1996.6
22.5°	1903.0	1903.0	1930.0	1942.5	1957.1
25°	1846.8	1846.8	1882.2	1896.7	1911.3
27.5°	1786.5	1788.6	1828.1	1848.9	1863.5
30°	1720.0	1728.3	1769.9	1794.8	1811.5
32.5°	1649.2	1659.6	1707.5	1738.7	1759.5
35°	1576.5	1591.0	1643.0	1676.3	1703.3
37.5°	1503.7	1522.4	1578.5	1616.0	1643.0
40°	1428.8	1449.6	1507.8	1551.5	1582.7
42.5°	1351.8	1374.7	1439.2	1489.1	1526.5
45°	1274.9	1297.8	1366.4	1428.8	1466.2
47.5°	1193.8	1220.8	1293.6	1366.4	1403.8
50°	1114.7	1143.9	1220.8	1299.8	1339.4
52.5°	1035.7	1069.0	1150.1	1233.3	1272.8
55°	956.7	987.9	1077.3	1162.6	1204.2
57.5°	877.7	910.9	1004.5	1094.0	1137.6
60°	798.6	834.0	931.7	1025.3	1069.0
62.5°	717.5	755.0	858.9	956.7	1000.4
65°	640.6	678.0	786.1	888.1	931.7
67.5°	561.5	603.1	715.4	819.4	865.2
70°	482.5	528.3	646.8	750.8	796.5
72.5°	403.5	455.5	576.1	680.1	713.4
75°	326.5	386.8	509.5	571.9	578.2
77.5°	255.8	318.2	434.7	459.6	472.1
80°	187.2	255.8	326.5	357.7	355.6
82.5°	124.8	195.5	235.0	239.2	235.0
85°	72.8	120.6	131.0	128.9	124.8
87.5°	31.2	47.8	41.6	35.4	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)