

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-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-LD5-55SE-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5541.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

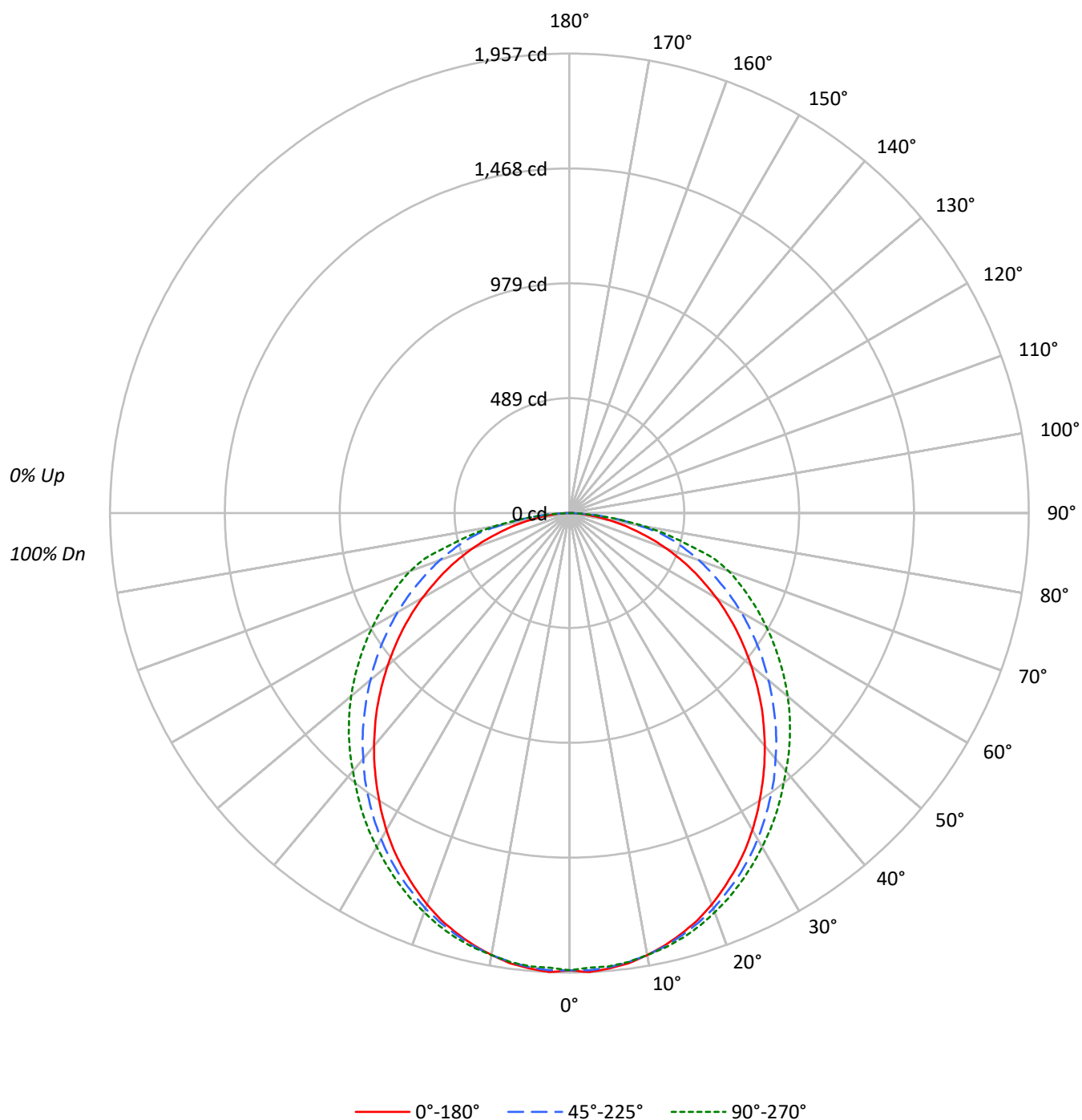
Input Watts (W): 54.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-55SE-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-55SE-UNV-L835-CD1-U

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°	2620	2620	2620
5°	2624	2610	2606
10°	2600	2587	2588
15°	2564	2555	2573
20°	2517	2518	2545
25°	2456	2471	2513
30°	2388	2418	2479
35°	2306	2358	2450
40°	2228	2298	2418
45°	2145	2238	2408
50°	2054	2178	2398
55°	1964	2129	2390
60°	1867	2081	2399
65°	1754	2037	2428
70°	1610	2013	2497
75°	1407	2004	2296
80°	1151	1763	1946
85°	792	1142	1111



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-55SE-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	3.3
10°-20°	524.1	9.5
20°-30°	783.4	14.1
30°-40°	929.0	16.8
40°-50°	955.3	17.2
50°-60°	873.9	15.8
60°-70°	704.8	12.7
70°-80°	457.6	8.3
80°-90°	128.8	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°	1491.6	26.9
0°-40°	2420.6	43.7
0°-60°	4249.9	76.7
0°-90°	5541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1947	1947	1947	1947	1947	
5°	1947	1934	1942	1938	1938	185
15°	1853	1844	1860	1868	1872	522
25°	1674	1674	1706	1719	1732	771
35°	1429	1442	1489	1519	1544	894
45°	1156	1176	1238	1295	1329	891
55°	867	895	976	1054	1091	775
65°	581	614	712	805	844	574
75°	296	351	462	518	524	316
85°	66	109	119	117	113	79
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-55SE-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1947.2	1947.2	1947.2	1947.2	1947.2
2.5°	1956.6	1941.5	1949.0	1945.3	1937.7
5°	1947.2	1934.0	1941.5	1937.7	1937.7
7.5°	1934.0	1920.8	1928.3	1928.3	1928.3
10°	1911.3	1900.0	1911.3	1911.3	1911.3
12.5°	1885.0	1875.5	1888.7	1890.6	1894.4
15°	1852.9	1843.5	1860.5	1868.0	1871.8
17.5°	1817.1	1809.6	1828.4	1837.8	1843.5
20°	1773.7	1768.1	1792.6	1802.0	1809.6
22.5°	1724.7	1724.7	1749.2	1760.6	1773.7
25°	1673.8	1673.8	1705.9	1719.1	1732.3
27.5°	1619.2	1621.1	1656.9	1675.7	1688.9
30°	1558.9	1566.4	1604.1	1626.7	1641.8
32.5°	1494.8	1504.2	1547.6	1575.8	1594.7
35°	1428.8	1442.0	1489.1	1519.3	1543.8
37.5°	1362.8	1379.8	1430.7	1464.6	1489.1
40°	1295.0	1313.8	1366.6	1406.2	1434.5
42.5°	1225.2	1246.0	1304.4	1349.6	1383.6
45°	1155.5	1176.2	1238.4	1295.0	1328.9
47.5°	1082.0	1106.5	1172.4	1238.4	1272.3
50°	1010.3	1036.7	1106.5	1178.1	1213.9
52.5°	938.7	968.9	1042.4	1117.8	1153.6
55°	867.1	895.4	976.4	1053.7	1091.4
57.5°	795.5	825.6	910.4	991.5	1031.1
60°	723.8	755.9	844.5	929.3	968.9
62.5°	650.3	684.2	778.5	867.1	906.7
65°	580.6	614.5	712.5	804.9	844.5
67.5°	508.9	546.6	648.4	742.7	784.1
70°	437.3	478.8	586.2	680.5	721.9
72.5°	365.7	412.8	522.1	616.4	646.5
75°	295.9	350.6	461.8	518.4	524.0
77.5°	231.8	288.4	394.0	416.6	427.9
80°	169.6	231.8	295.9	324.2	322.3
82.5°	113.1	177.2	213.0	216.8	213.0
85°	66.0	109.3	118.8	116.9	113.1
87.5°	28.3	43.4	37.7	32.0	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)