

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-S-UNV-L830-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 (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55SE-S-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

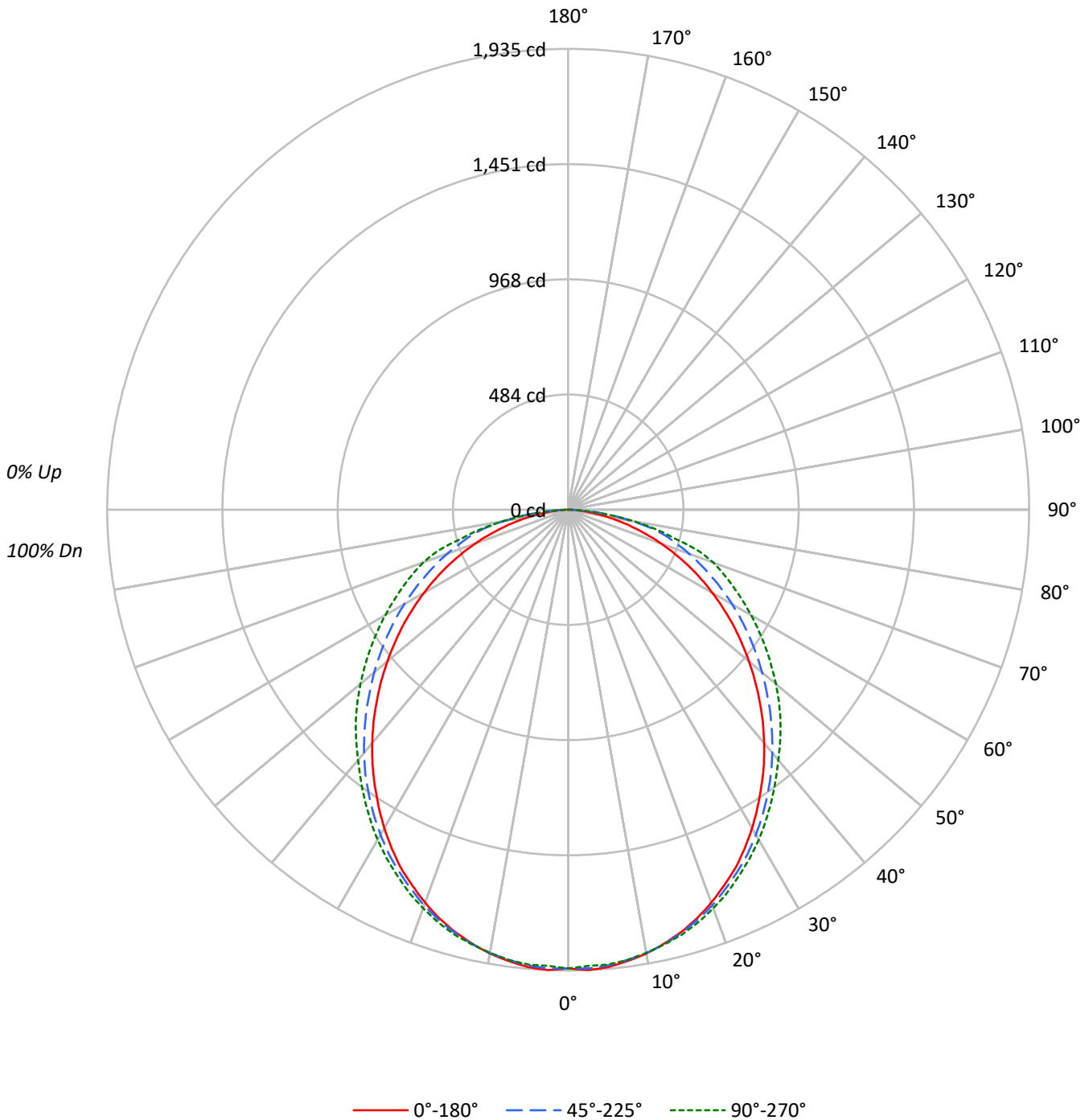
Lumens per Lamp: N/A
Luminaire Lumens: 5320.3 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

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				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	104	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2591	2591	2591
5°	2598	2582	2578
10°	2574	2559	2558
15°	2540	2526	2538
20°	2492	2484	2504
25°	2437	2431	2460
30°	2364	2375	2417
35°	2283	2310	2363
40°	2202	2242	2313
45°	2110	2165	2284
50°	2015	2091	2249
55°	1917	2023	2217
60°	1804	1959	2196
65°	1679	1898	2199
70°	1525	1854	2241
75°	1322	1836	2001
80°	1057	1602	1667
85°	701	1038	974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	3.4
10°-20°	517.9	9.7
20°-30°	771.8	14.5
30°-40°	908.5	17.1
40°-50°	923.3	17.4
50°-60°	830.1	15.6
60°-70°	655.8	12.3
70°-80°	416.0	7.8
80°-90°	114.8	2.2
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°	1471.8	27.7
0°-40°	2380.3	44.7
0°-60°	4133.7	77.7
0°-90°	5320.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5320.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1928	1912	1921	1917	1917	183
15°	1836	1827	1839	1845	1846	517
25°	1660	1659	1678	1689	1696	763
35°	1414	1423	1459	1475	1489	885
45°	1136	1152	1198	1234	1260	877
55°	846	867	928	988	1013	756
65°	556	584	664	736	765	551
75°	278	326	423	460	457	296
85°	58	101	108	99	99	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1926.0	1926.0	1926.0	1926.0	1926.0
2.5°	1934.9	1920.7	1927.8	1924.2	1917.2
5°	1927.8	1911.9	1920.7	1917.2	1917.2
7.5°	1911.9	1899.5	1906.6	1904.8	1906.6
10°	1892.4	1880.0	1890.6	1890.6	1888.9
12.5°	1865.8	1855.3	1867.6	1867.6	1869.4
15°	1835.8	1826.9	1839.3	1844.6	1846.4
17.5°	1798.5	1789.7	1805.7	1811.0	1816.3
20°	1756.1	1752.6	1768.5	1773.8	1780.9
22.5°	1708.3	1708.3	1724.2	1731.3	1741.9
25°	1660.5	1658.7	1678.2	1688.8	1695.9
27.5°	1603.9	1605.6	1630.4	1641.0	1649.9
30°	1543.7	1547.2	1575.5	1587.9	1600.3
32.5°	1479.9	1487.0	1518.9	1533.0	1545.5
35°	1414.5	1423.3	1458.7	1474.6	1488.7
37.5°	1348.9	1361.4	1398.5	1414.5	1430.3
40°	1279.9	1290.5	1333.0	1352.5	1372.0
42.5°	1209.1	1223.2	1265.7	1294.1	1317.1
45°	1136.5	1152.4	1198.4	1233.9	1260.5
47.5°	1063.9	1085.2	1129.5	1177.2	1200.2
50°	991.3	1012.6	1062.2	1115.3	1138.3
52.5°	917.0	938.2	994.8	1049.8	1074.5
55°	846.2	867.4	927.6	987.8	1012.6
57.5°	771.9	794.9	862.1	924.1	948.9
60°	699.3	722.3	794.9	860.3	886.9
62.5°	628.4	653.2	729.3	798.4	825.0
65°	555.8	584.2	663.9	736.4	764.8
67.5°	485.1	516.9	600.1	676.2	706.3
70°	414.2	451.4	539.9	617.8	647.9
72.5°	345.2	385.9	479.8	557.6	573.5
75°	278.0	325.8	423.1	460.3	456.8
77.5°	214.2	267.3	359.4	366.4	377.1
80°	155.8	214.2	269.0	283.2	276.2
82.5°	102.7	161.1	192.9	185.9	184.1
85°	58.4	100.9	108.0	99.2	99.2
87.5°	24.8	40.8	35.4	26.6	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)