

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-LD5-50-S-UNV-L840-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-LD5-50-S-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5189.5 lumens
Efficiency: N/A
Efficacy: 127.6 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

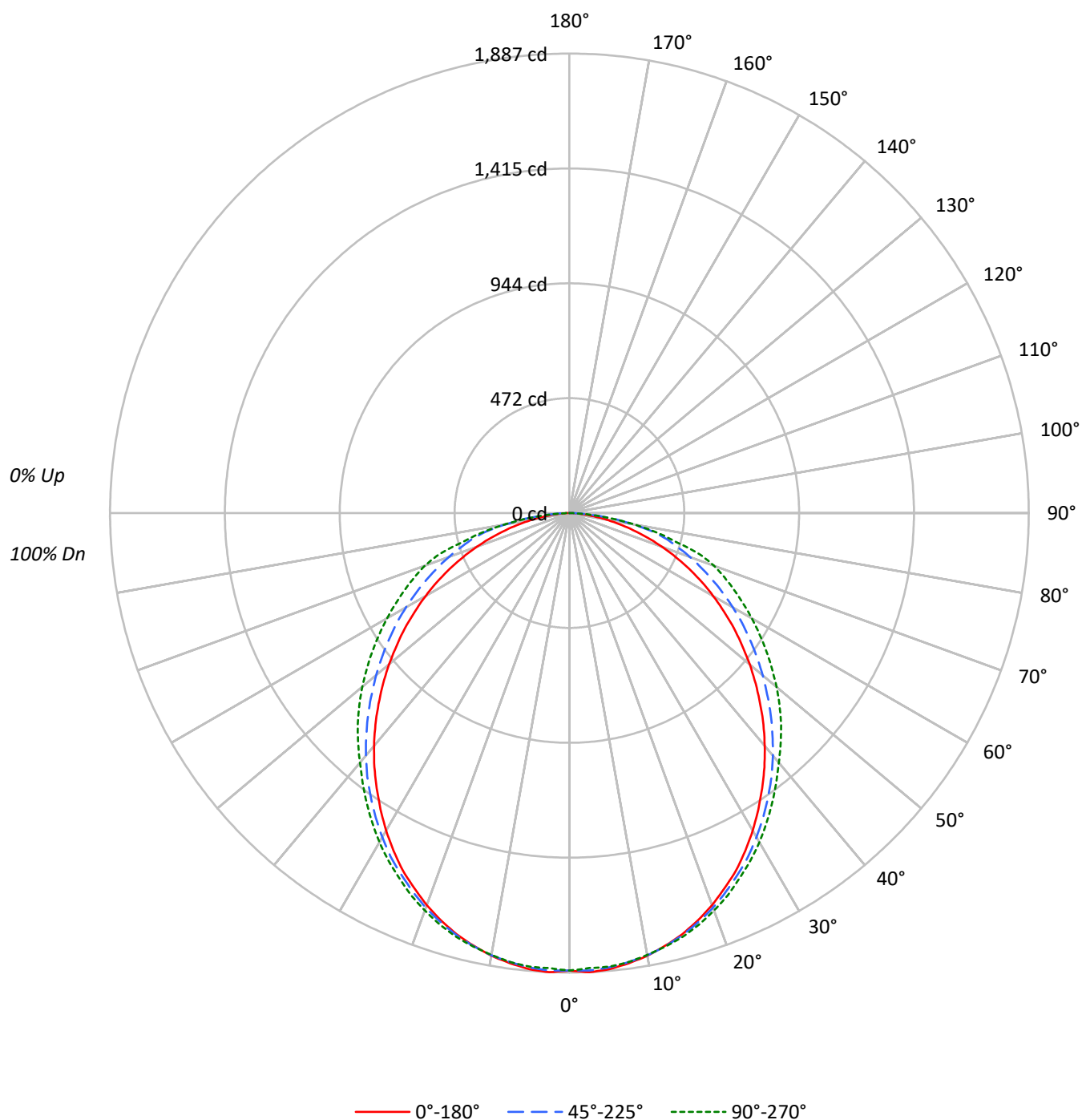
Input Watts (W): 40.68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10
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°	2528	2528	2528
5°	2534	2519	2515
10°	2511	2496	2495
15°	2478	2464	2476
20°	2430	2423	2443
25°	2377	2372	2400
30°	2306	2317	2357
35°	2227	2253	2305
40°	2148	2186	2256
45°	2058	2112	2228
50°	1966	2040	2193
55°	1869	1973	2163
60°	1759	1911	2142
65°	1638	1851	2145
70°	1488	1808	2186
75°	1289	1791	1952
80°	1032	1564	1626
85°	684	1012	950



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	3.4
10°-20°	505.2	9.7
20°-30°	752.8	14.5
30°-40°	886.2	17.1
40°-50°	900.6	17.4
50°-60°	809.7	15.6
60°-70°	639.7	12.3
70°-80°	405.8	7.8
80°-90°	112.0	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°	1435.6	27.7
0°-40°	2321.8	44.7
0°-60°	4032.1	77.7
0°-90°	5189.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5189.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1879	1879	1879	1879	1879	
5°	1880	1865	1874	1870	1870	178
15°	1791	1782	1794	1799	1801	504
25°	1620	1618	1637	1647	1654	745
35°	1380	1388	1423	1438	1452	863
45°	1109	1124	1169	1204	1229	855
55°	825	846	905	964	988	737
65°	542	570	648	718	746	537
75°	271	318	413	449	446	289
85°	57	98	105	97	97	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1878.7	1878.7	1878.7	1878.7	1878.7
2.5°	1887.3	1873.5	1880.4	1877.0	1870.1
5°	1880.4	1864.9	1873.5	1870.1	1870.1
7.5°	1864.9	1852.8	1859.7	1858.0	1859.7
10°	1845.9	1833.8	1844.2	1844.2	1842.4
12.5°	1820.0	1809.6	1821.7	1821.7	1823.4
15°	1790.6	1782.0	1794.1	1799.3	1801.0
17.5°	1754.4	1745.7	1761.3	1766.5	1771.6
20°	1712.9	1709.5	1725.0	1730.2	1737.1
22.5°	1666.3	1666.3	1681.9	1688.8	1699.1
25°	1619.7	1618.0	1637.0	1647.3	1654.2
27.5°	1564.4	1566.2	1590.3	1600.7	1609.3
30°	1505.7	1509.2	1536.8	1548.9	1561.0
32.5°	1443.6	1450.5	1481.5	1495.4	1507.4
35°	1379.7	1388.3	1422.8	1438.4	1452.2
37.5°	1315.8	1327.9	1364.1	1379.7	1395.2
40°	1248.4	1258.8	1300.2	1319.2	1338.2
42.5°	1179.4	1193.2	1234.6	1262.3	1284.7
45°	1108.6	1124.1	1169.0	1203.5	1229.4
47.5°	1037.8	1058.5	1101.7	1148.3	1170.7
50°	967.0	987.7	1036.0	1087.9	1110.3
52.5°	894.5	915.2	970.4	1024.0	1048.1
55°	825.4	846.1	904.8	963.5	987.7
57.5°	752.9	775.3	840.9	901.4	925.5
60°	682.1	704.5	775.3	839.2	865.1
62.5°	613.0	637.2	711.4	778.8	804.7
65°	542.2	569.8	647.5	718.3	746.0
67.5°	473.1	504.2	585.4	659.6	689.0
70°	404.1	440.3	526.7	602.6	632.0
72.5°	336.7	376.4	467.9	543.9	559.5
75°	271.1	317.7	412.7	449.0	445.5
77.5°	208.9	260.7	350.5	357.4	367.8
80°	152.0	208.9	262.5	276.3	269.4
82.5°	100.2	157.1	188.2	181.3	179.6
85°	57.0	98.4	105.3	96.7	96.7
87.5°	24.2	39.7	34.5	25.9	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)