

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: P261046

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261046
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-LD5-50SE-S-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5408.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

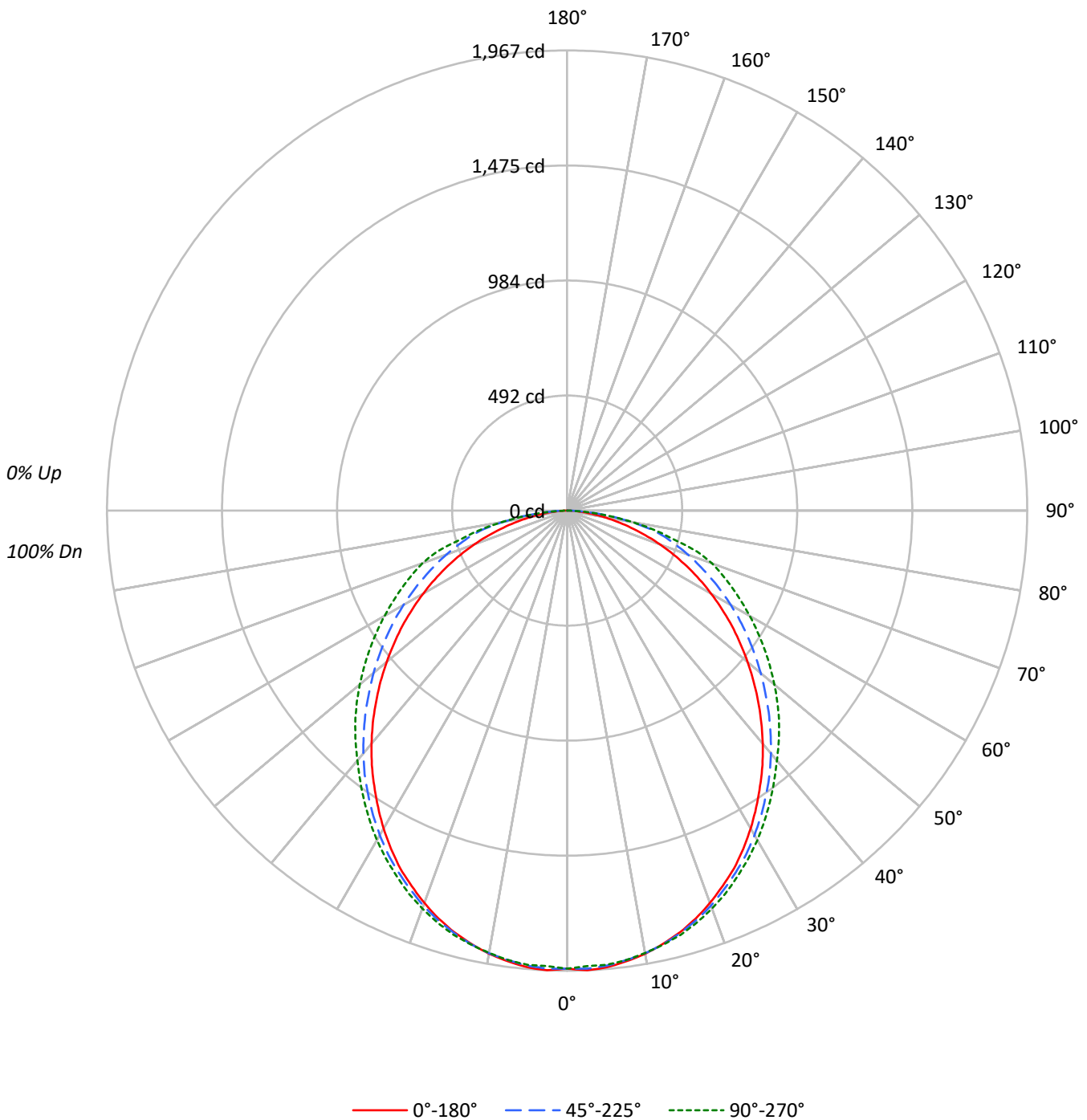
Input Watts (W): 41.656839
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2634	2634	2634
5°	2647	2637	2632
10°	2628	2626	2623
15°	2599	2604	2614
20°	2556	2574	2592
25°	2506	2533	2559
30°	2438	2488	2527
35°	2362	2435	2486
40°	2285	2380	2449
45°	2198	2318	2438
50°	2109	2260	2422
55°	2018	2212	2415
60°	1913	2174	2426
65°	1799	2148	2475
70°	1657	2159	2591
75°	1469	2236	2414
80°	1227	2119	2175
85°	917	1695	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	3.4
10°-20°	526.4	9.7
20°-30°	784.5	14.5
30°-40°	923.5	17.1
40°-50°	938.5	17.4
50°-60°	843.8	15.6
60°-70°	666.6	12.3
70°-80°	422.9	7.8
80°-90°	116.7	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°	1496.1	27.7
0°-40°	2419.6	44.7
0°-60°	4201.8	77.7
0°-90°	5408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1960	1943	1952	1949	1949	186
15°	1866	1857	1870	1875	1877	526
25°	1688	1686	1706	1717	1724	776
35°	1438	1447	1483	1499	1513	900
45°	1155	1171	1218	1254	1281	891
55°	860	882	943	1004	1029	768
65°	565	594	675	749	777	560
75°	282	331	430	468	464	301
85°	59	103	110	101	101	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1966.8	1952.4	1959.6	1956.0	1948.8
5°	1959.6	1943.4	1952.4	1948.8	1948.8
7.5°	1943.4	1930.8	1938.0	1936.2	1938.0
10°	1923.6	1911.0	1921.8	1921.8	1920.0
12.5°	1896.6	1885.8	1898.4	1898.4	1900.2
15°	1866.0	1857.0	1869.6	1875.0	1876.8
17.5°	1828.2	1819.2	1835.4	1840.8	1846.2
20°	1785.0	1781.4	1797.6	1803.0	1810.2
22.5°	1736.5	1736.5	1752.7	1759.9	1770.7
25°	1687.9	1686.1	1705.9	1716.7	1723.9
27.5°	1630.3	1632.1	1657.3	1668.1	1677.1
30°	1569.1	1572.7	1601.5	1614.1	1626.7
32.5°	1504.3	1511.5	1543.9	1558.3	1570.9
35°	1437.8	1446.8	1482.7	1498.9	1513.3
37.5°	1371.2	1383.8	1421.6	1437.8	1454.0
40°	1301.0	1311.8	1355.0	1374.8	1394.6
42.5°	1229.0	1243.4	1286.6	1315.4	1338.8
45°	1155.2	1171.4	1218.2	1254.2	1281.2
47.5°	1081.5	1103.1	1148.0	1196.6	1220.0
50°	1007.7	1029.3	1079.7	1133.6	1157.0
52.5°	932.1	953.7	1011.3	1067.1	1092.3
55°	860.1	881.7	942.9	1004.1	1029.3
57.5°	784.6	808.0	876.3	939.3	964.5
60°	710.8	734.2	808.0	874.5	901.5
62.5°	638.8	664.0	741.4	811.5	838.5
65°	565.0	593.8	674.8	748.6	777.4
67.5°	493.0	525.4	610.0	687.4	718.0
70°	421.1	458.9	548.8	628.0	658.6
72.5°	350.9	392.3	487.6	566.8	583.0
75°	282.5	331.1	430.1	467.9	464.3
77.5°	217.7	271.7	365.3	372.5	383.3
80°	158.4	217.7	273.5	287.9	280.7
82.5°	104.4	163.7	196.1	188.9	187.1
85°	59.4	102.6	109.8	100.8	100.8
87.5°	25.2	41.4	36.0	27.0	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)