

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: P260624

Luminaire Tested: **24CZ-LD5-50SE-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5252.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

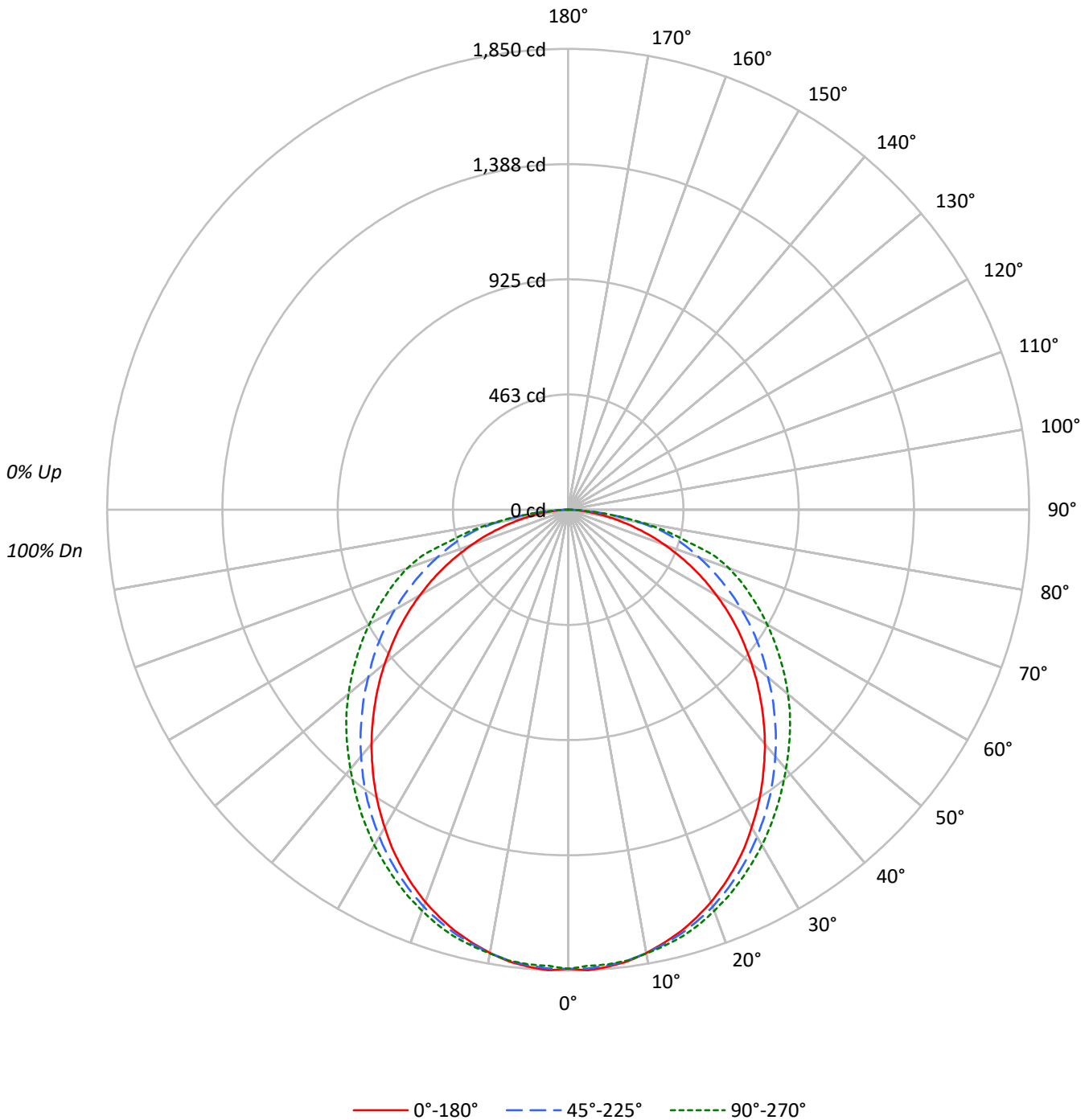
Input Watts (W): 40.624353
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2480	2480	2480
5°	2487	2480	2475
10°	2469	2469	2472
15°	2440	2452	2470
20°	2400	2428	2454
25°	2349	2395	2435
30°	2288	2355	2417
35°	2224	2316	2398
40°	2157	2271	2388
45°	2084	2227	2395
50°	2010	2191	2409
55°	1936	2177	2434
60°	1848	2163	2482
65°	1752	2164	2565
70°	1620	2200	2702
75°	1449	2300	2571
80°	1212	2201	2355
85°	915	1694	1610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	3.3
10°-20°	495.7	9.4
20°-30°	741.1	14.1
30°-40°	879.2	16.7
40°-50°	904.9	17.2
50°-60°	830.1	15.8
60°-70°	671.2	12.8
70°-80°	435.6	8.3
80°-90°	120.1	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°	1411.0	26.9
0°-40°	2290.1	43.6
0°-60°	4025.1	76.6
0°-90°	5252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1843	1843	1843	1843	1843	
5°	1841	1829	1836	1834	1832	175
15°	1752	1744	1760	1768	1773	493
25°	1582	1584	1613	1627	1640	728
35°	1354	1365	1410	1440	1460	847
45°	1095	1113	1171	1226	1259	845
55°	825	851	928	1003	1038	737
65°	550	583	680	770	806	544
75°	279	331	442	494	494	296
85°	59	101	110	106	104	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.2	1843.2	1843.2	1843.2	1843.2
2.5°	1850.4	1836.0	1843.2	1841.4	1832.4
5°	1841.4	1828.8	1836.0	1834.2	1832.4
7.5°	1828.8	1816.2	1825.2	1823.4	1825.2
10°	1807.2	1796.4	1807.2	1809.0	1809.0
12.5°	1780.2	1771.2	1785.6	1789.2	1792.8
15°	1751.5	1744.3	1760.5	1767.7	1773.0
17.5°	1715.5	1710.1	1729.9	1738.9	1746.1
20°	1675.9	1674.1	1695.7	1704.7	1713.7
22.5°	1631.0	1631.0	1656.2	1667.0	1679.5
25°	1582.4	1584.2	1613.0	1627.4	1640.0
27.5°	1530.3	1532.1	1566.3	1584.2	1598.6
30°	1472.7	1479.9	1515.9	1539.3	1555.5
32.5°	1415.2	1424.2	1463.8	1490.7	1508.7
35°	1354.1	1364.9	1409.8	1440.4	1460.2
37.5°	1291.1	1303.7	1352.3	1386.4	1409.8
40°	1228.2	1242.6	1292.9	1332.5	1359.5
42.5°	1161.7	1177.8	1233.6	1280.3	1309.1
45°	1095.1	1113.1	1170.6	1226.4	1258.8
47.5°	1028.6	1050.2	1111.3	1172.4	1206.6
50°	960.3	981.8	1046.6	1116.7	1150.9
52.5°	891.9	917.1	989.0	1061.0	1095.1
55°	825.4	850.6	927.9	1003.4	1037.6
57.5°	757.1	782.2	866.7	945.9	980.0
60°	686.9	715.7	803.8	884.7	922.5
62.5°	618.6	649.2	742.7	829.0	864.9
65°	550.3	582.6	679.7	769.6	805.6
67.5°	480.1	517.9	618.6	710.3	748.1
70°	411.8	453.2	559.2	651.0	686.9
72.5°	345.3	390.2	499.9	593.4	615.0
75°	278.7	330.9	442.4	494.5	494.5
77.5°	215.8	273.3	377.6	397.4	408.2
80°	156.4	219.4	284.1	307.5	303.9
82.5°	104.3	167.2	203.2	203.2	197.8
85°	59.3	100.7	109.7	106.1	104.3
87.5°	25.2	37.8	34.2	27.0	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)