

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: P261306

Luminaire Tested: **24CZ-LD5-55-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261306
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-LD5-55-S-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5130.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

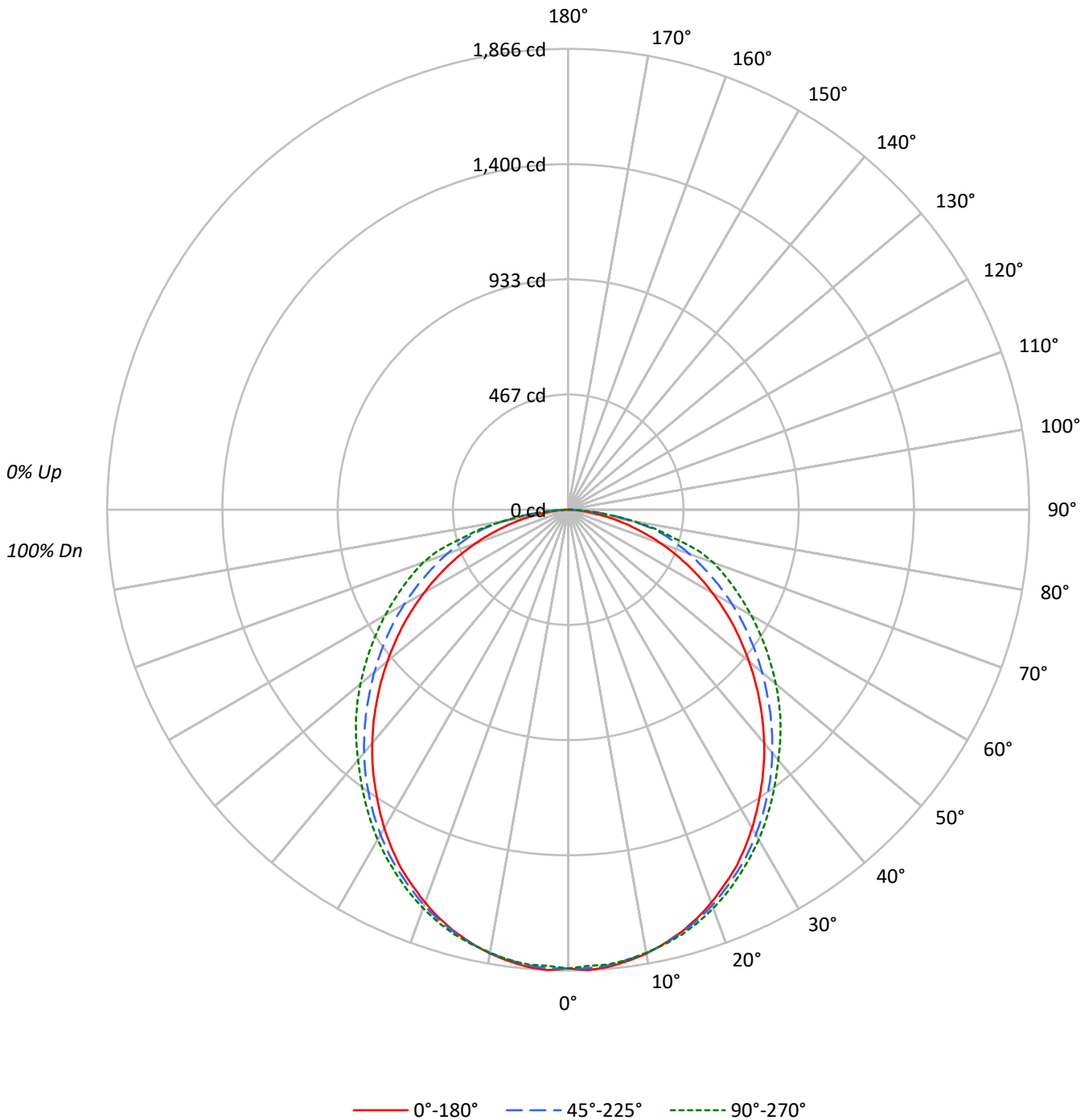
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2499	2499	2499
5°	2511	2501	2497
10°	2493	2491	2488
15°	2466	2470	2480
20°	2425	2442	2459
25°	2377	2402	2428
30°	2313	2360	2397
35°	2240	2310	2358
40°	2168	2258	2324
45°	2085	2199	2312
50°	2001	2144	2298
55°	1914	2098	2290
60°	1814	2062	2301
65°	1706	2038	2348
70°	1571	2048	2458
75°	1393	2121	2289
80°	1164	2011	2063
85°	869	1607	1476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	3.4
10°-20°	499.4	9.7
20°-30°	744.2	14.5
30°-40°	876.0	17.1
40°-50°	890.2	17.4
50°-60°	800.4	15.6
60°-70°	632.3	12.3
70°-80°	401.1	7.8
80°-90°	110.7	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°	1419.2	27.7
0°-40°	2295.2	44.7
0°-60°	3985.8	77.7
0°-90°	5130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1857	1857	1857	1857	1857	
5°	1859	1844	1852	1849	1849	176
15°	1770	1762	1774	1779	1780	499
25°	1601	1599	1618	1628	1635	736
35°	1364	1372	1406	1422	1436	853
45°	1096	1111	1156	1190	1215	846
55°	816	836	894	952	976	729
65°	536	563	640	710	737	531
75°	268	314	408	444	440	285
85°	56	97	104	96	96	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1857.2	1857.2	1857.2	1857.2	1857.2
2.5°	1865.7	1852.0	1858.9	1855.4	1848.6
5°	1858.9	1843.5	1852.0	1848.6	1848.6
7.5°	1843.5	1831.6	1838.4	1836.7	1838.4
10°	1824.7	1812.8	1823.0	1823.0	1821.3
12.5°	1799.1	1788.9	1800.8	1800.8	1802.5
15°	1770.1	1761.6	1773.5	1778.6	1780.3
17.5°	1734.3	1725.7	1741.1	1746.2	1751.3
20°	1693.3	1689.9	1705.2	1710.4	1717.2
22.5°	1647.2	1647.2	1662.6	1669.4	1679.6
25°	1601.1	1599.4	1618.2	1628.4	1635.3
27.5°	1546.5	1548.2	1572.1	1582.3	1590.9
30°	1488.5	1491.9	1519.2	1531.1	1543.1
32.5°	1427.0	1433.8	1464.6	1478.2	1490.2
35°	1363.8	1372.4	1406.5	1421.9	1435.5
37.5°	1300.7	1312.6	1348.5	1363.8	1379.2
40°	1234.1	1244.4	1285.3	1304.1	1322.9
42.5°	1165.8	1179.5	1220.5	1247.8	1270.0
45°	1095.9	1111.2	1155.6	1189.7	1215.3
47.5°	1025.9	1046.4	1089.0	1135.1	1157.3
50°	955.9	976.4	1024.2	1075.4	1097.6
52.5°	884.2	904.7	959.3	1012.2	1036.1
55°	815.9	836.4	894.4	952.5	976.4
57.5°	744.2	766.4	831.3	891.0	914.9
60°	674.2	696.4	766.4	829.6	855.2
62.5°	606.0	629.9	703.3	769.8	795.4
65°	536.0	563.3	640.1	710.1	737.4
67.5°	467.7	498.4	578.7	652.1	681.1
70°	399.4	435.3	520.6	595.7	624.7
72.5°	332.9	372.1	462.6	537.7	553.0
75°	268.0	314.1	408.0	443.8	440.4
77.5°	206.5	257.7	346.5	353.3	363.6
80°	150.2	206.5	259.5	273.1	266.3
82.5°	99.0	155.3	186.1	179.2	177.5
85°	56.3	97.3	104.1	95.6	95.6
87.5°	23.9	39.3	34.1	25.6	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)