

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: P261171

Luminaire Tested: **24CZ-LD5-55-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261171
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-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5751.0 lumens
Efficiency: N/A
Efficacy: 140.9 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

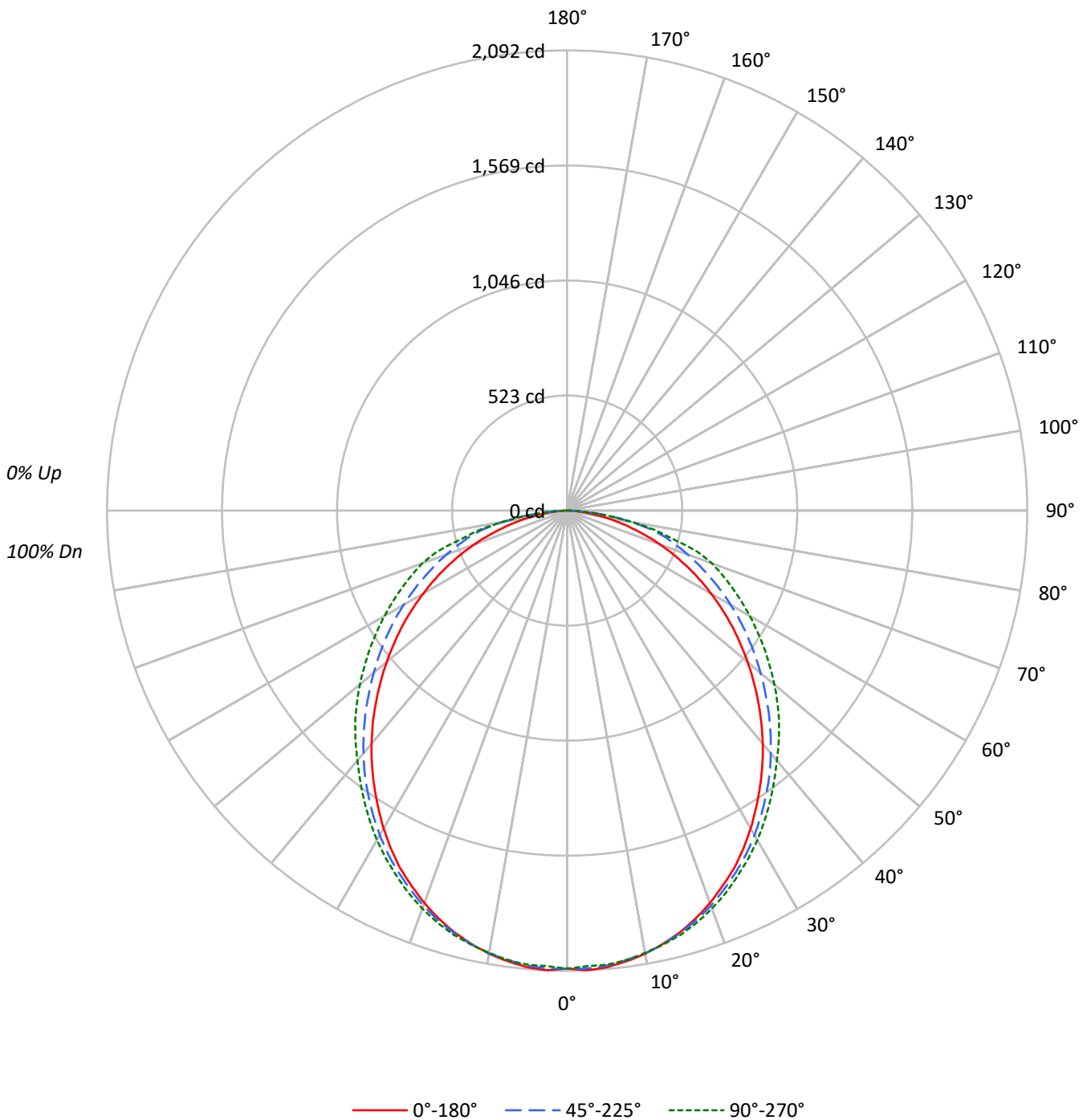
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2801	2801	2801
5°	2815	2804	2799
10°	2795	2792	2790
15°	2764	2769	2780
20°	2718	2737	2756
25°	2665	2693	2722
30°	2592	2646	2688
35°	2511	2590	2643
40°	2430	2531	2605
45°	2338	2465	2593
50°	2243	2403	2575
55°	2146	2352	2568
60°	2034	2312	2580
65°	1913	2285	2632
70°	1762	2296	2755
75°	1562	2377	2567
80°	1305	2254	2313
85°	974	1802	1655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	3.4
10°-20°	559.8	9.7
20°-30°	834.3	14.5
30°-40°	982.1	17.1
40°-50°	998.0	17.4
50°-60°	897.3	15.6
60°-70°	708.9	12.3
70°-80°	449.7	7.8
80°-90°	124.1	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°	1590.9	27.7
0°-40°	2573.0	44.7
0°-60°	4468.3	77.7
0°-90°	5751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2082	2082	2082	2082	2082	
5°	2084	2067	2076	2072	2072	198
15°	1984	1975	1988	1994	1996	559
25°	1795	1793	1814	1826	1833	825
35°	1529	1538	1577	1594	1609	957
45°	1228	1246	1296	1334	1362	948
55°	915	938	1003	1068	1095	817
65°	601	632	718	796	827	595
75°	300	352	457	498	494	320
85°	63	109	117	107	107	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2082.0	2082.0	2082.0	2082.0	2082.0
2.5°	2091.5	2076.2	2083.9	2080.1	2072.4
5°	2083.9	2066.7	2076.2	2072.4	2072.4
7.5°	2066.7	2053.3	2060.9	2059.0	2060.9
10°	2045.6	2032.2	2043.7	2043.7	2041.8
12.5°	2016.9	2005.4	2018.8	2018.8	2020.7
15°	1984.4	1974.8	1988.2	1993.9	1995.9
17.5°	1944.2	1934.6	1951.8	1957.6	1963.3
20°	1898.3	1894.4	1911.7	1917.4	1925.1
22.5°	1846.6	1846.6	1863.8	1871.5	1883.0
25°	1794.9	1793.0	1814.1	1825.5	1833.2
27.5°	1733.7	1735.6	1762.4	1773.9	1783.5
30°	1668.6	1672.5	1703.1	1716.5	1729.9
32.5°	1599.7	1607.4	1641.8	1657.2	1670.5
35°	1528.9	1538.5	1576.8	1594.0	1609.3
37.5°	1458.1	1471.5	1511.7	1528.9	1546.2
40°	1383.5	1395.0	1440.9	1462.0	1483.0
42.5°	1307.0	1322.3	1368.2	1398.8	1423.7
45°	1228.5	1245.7	1295.5	1333.8	1362.5
47.5°	1150.1	1173.0	1220.9	1272.5	1297.4
50°	1071.6	1094.6	1148.1	1205.6	1230.4
52.5°	991.2	1014.2	1075.4	1134.7	1161.5
55°	914.7	937.7	1002.7	1067.8	1094.6
57.5°	834.3	859.2	931.9	998.9	1025.7
60°	755.9	780.7	859.2	930.0	958.7
62.5°	679.3	706.1	788.4	863.0	891.7
65°	600.9	631.5	717.6	796.0	826.7
67.5°	524.3	558.8	648.7	731.0	763.5
70°	447.8	488.0	583.6	667.8	700.4
72.5°	373.1	417.2	518.6	602.8	620.0
75°	300.4	352.1	457.3	497.5	493.7
77.5°	231.5	288.9	388.5	396.1	407.6
80°	168.4	231.5	290.9	306.2	298.5
82.5°	111.0	174.1	208.6	200.9	199.0
85°	63.1	109.1	116.7	107.2	107.2
87.5°	26.8	44.0	38.3	28.7	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)