

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: P261167

Luminaire Tested: **24CZ-LD5-55-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261167
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5195.0 lumens
Efficiency: N/A
Efficacy: 129.6 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

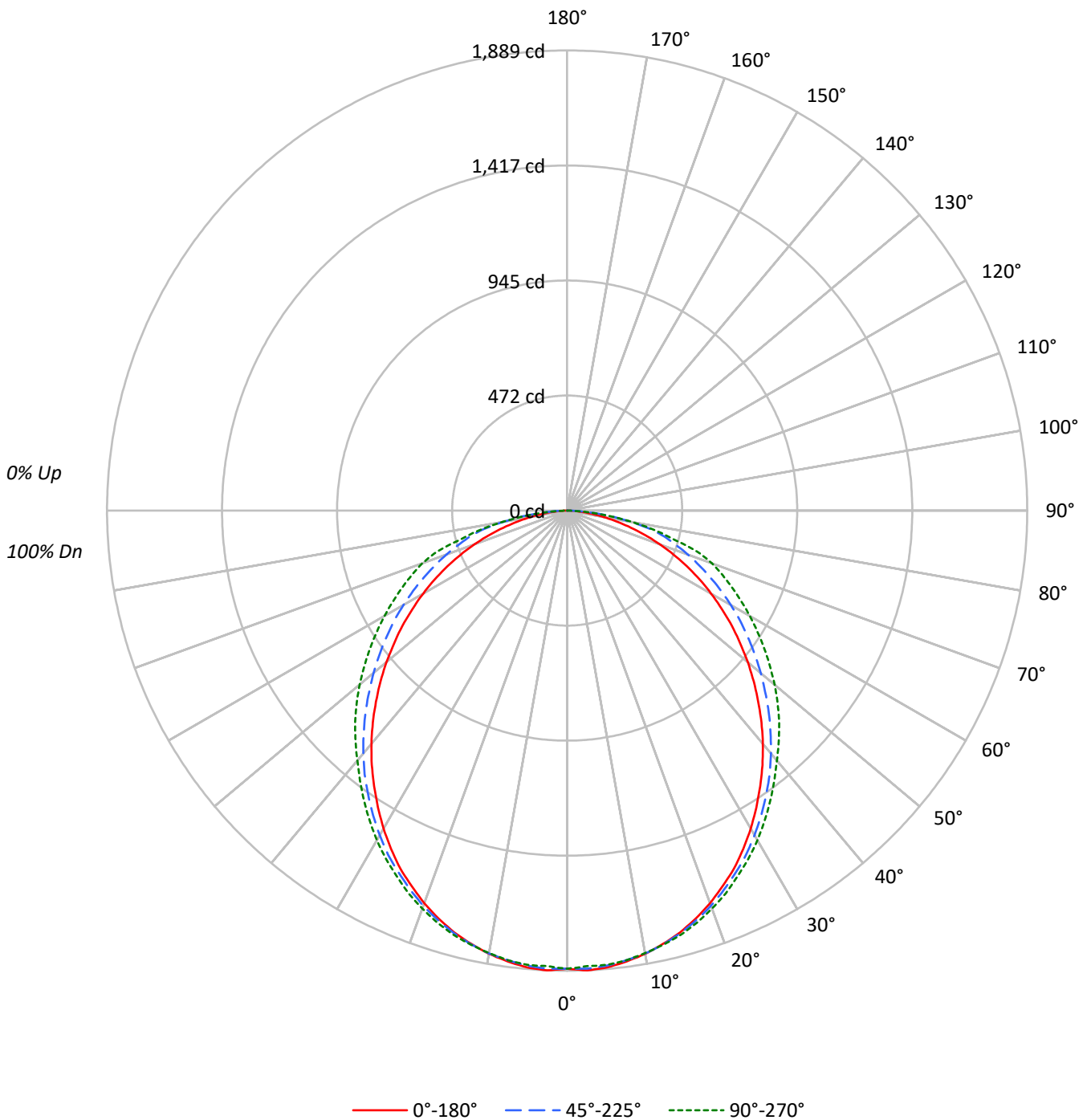
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2530	2530	2530
5°	2542	2533	2528
10°	2525	2522	2520
15°	2497	2502	2511
20°	2455	2473	2490
25°	2407	2433	2458
30°	2342	2390	2428
35°	2269	2339	2388
40°	2195	2286	2353
45°	2112	2227	2342
50°	2026	2171	2327
55°	1938	2125	2319
60°	1837	2088	2330
65°	1728	2064	2377
70°	1591	2074	2489
75°	1411	2148	2319
80°	1179	2035	2090
85°	880	1627	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	3.4
10°-20°	505.7	9.7
20°-30°	753.6	14.5
30°-40°	887.1	17.1
40°-50°	901.5	17.4
50°-60°	810.5	15.6
60°-70°	640.3	12.3
70°-80°	406.2	7.8
80°-90°	112.1	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°	1437.1	27.7
0°-40°	2324.3	44.7
0°-60°	4036.3	77.7
0°-90°	5195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1882	1867	1876	1872	1872	178
15°	1792	1784	1796	1801	1803	505
25°	1621	1620	1639	1649	1656	746
35°	1381	1390	1424	1440	1454	864
45°	1110	1125	1170	1205	1231	856
55°	826	847	906	964	989	738
65°	543	570	648	719	747	538
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°	1880.7	1880.7	1880.7	1880.7	1880.7
2.5°	1889.3	1875.5	1882.4	1879.0	1872.0
5°	1882.4	1866.9	1875.5	1872.0	1872.0
7.5°	1866.9	1854.8	1861.7	1859.9	1861.7
10°	1847.8	1835.7	1846.1	1846.1	1844.4
12.5°	1821.9	1811.5	1823.6	1823.6	1825.4
15°	1792.5	1783.9	1796.0	1801.2	1802.9
17.5°	1756.2	1747.6	1763.1	1768.3	1773.5
20°	1714.7	1711.3	1726.8	1732.0	1738.9
22.5°	1668.1	1668.1	1683.6	1690.5	1700.9
25°	1621.4	1619.7	1638.7	1649.1	1656.0
27.5°	1566.1	1567.8	1592.0	1602.4	1611.0
30°	1507.3	1510.8	1538.4	1550.5	1562.6
32.5°	1445.1	1452.0	1483.1	1496.9	1509.0
35°	1381.1	1389.8	1424.3	1439.9	1453.7
37.5°	1317.2	1329.3	1365.6	1381.1	1396.7
40°	1249.8	1260.1	1301.6	1320.6	1339.6
42.5°	1180.6	1194.4	1235.9	1263.6	1286.1
45°	1109.7	1125.3	1170.2	1204.8	1230.7
47.5°	1038.9	1059.6	1102.8	1149.5	1172.0
50°	968.0	988.7	1037.1	1089.0	1111.5
52.5°	895.4	916.1	971.5	1025.0	1049.2
55°	826.3	847.0	905.8	964.5	988.7
57.5°	753.7	776.1	841.8	902.3	926.5
60°	682.8	705.3	776.1	840.1	866.0
62.5°	613.6	637.8	712.2	779.6	805.5
65°	542.8	570.4	648.2	719.1	746.7
67.5°	473.6	504.7	586.0	660.3	689.7
70°	404.5	440.8	527.2	603.3	632.7
72.5°	337.1	376.8	468.4	544.5	560.1
75°	271.4	318.1	413.1	449.4	446.0
77.5°	209.2	261.0	350.9	357.8	368.2
80°	152.1	209.2	262.7	276.6	269.7
82.5°	100.3	157.3	188.4	181.5	179.8
85°	57.0	98.5	105.4	96.8	96.8
87.5°	24.2	39.8	34.6	25.9	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)