

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: P261075

Luminaire Tested: **24CZ-LD5-55-S-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261075
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-L93050-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: 5287.4 lumens
Efficiency: N/A
Efficacy: 126.6 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

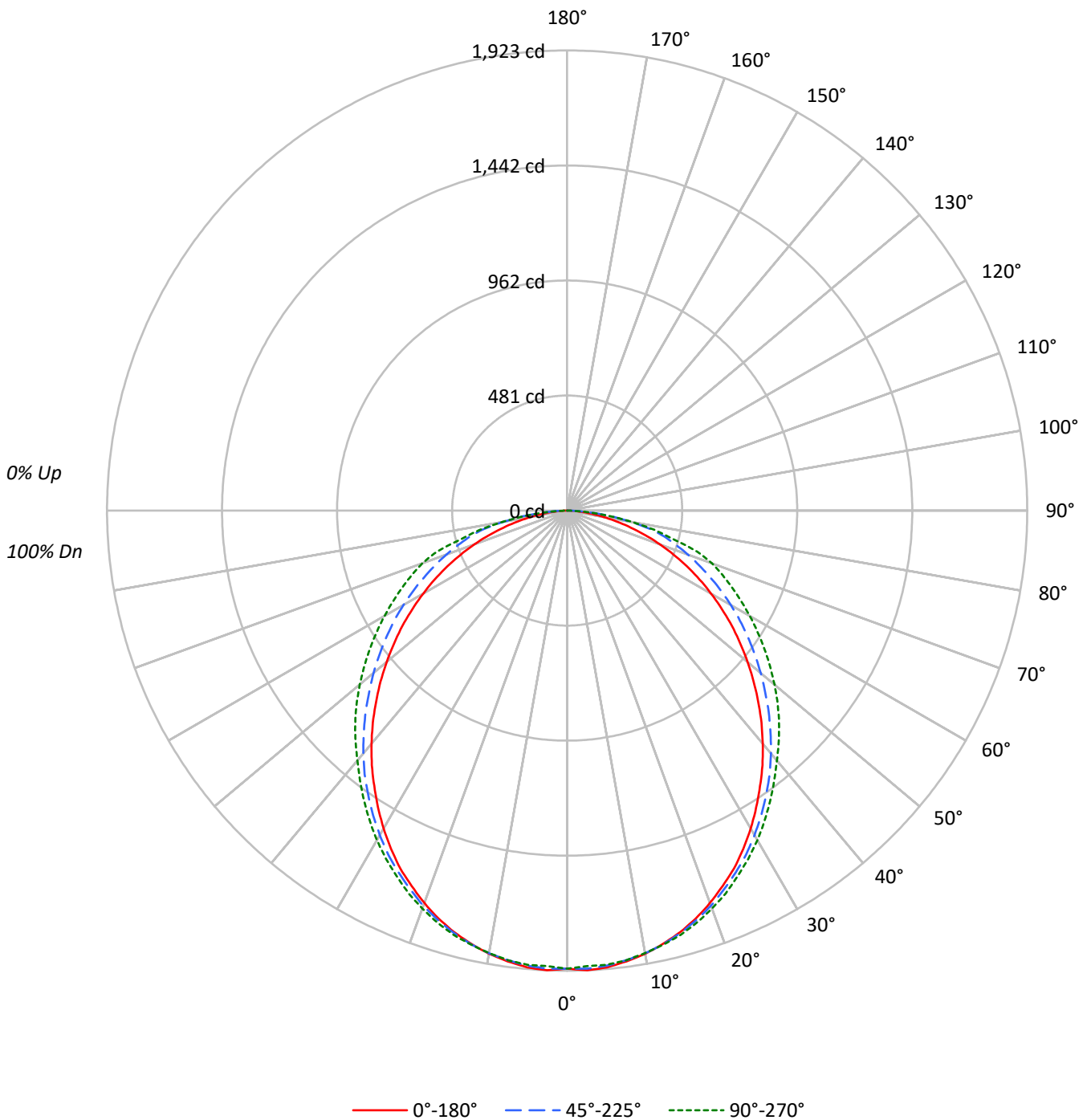
Input Watts (W): 41.766486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2575	2575	2575
5°	2588	2578	2573
10°	2569	2567	2565
15°	2541	2546	2556
20°	2499	2516	2534
25°	2450	2476	2502
30°	2383	2433	2471
35°	2309	2381	2430
40°	2234	2327	2395
45°	2149	2266	2383
50°	2062	2210	2368
55°	1973	2163	2361
60°	1870	2126	2372
65°	1759	2100	2420
70°	1620	2111	2533
75°	1436	2186	2360
80°	1199	2072	2127
85°	897	1656	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	3.4
10°-20°	514.7	9.7
20°-30°	767.0	14.5
30°-40°	902.9	17.1
40°-50°	917.6	17.4
50°-60°	824.9	15.6
60°-70°	651.7	12.3
70°-80°	413.5	7.8
80°-90°	114.1	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°	1462.7	27.7
0°-40°	2365.6	44.7
0°-60°	4108.1	77.7
0°-90°	5287.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5287.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1914	1914	1914	1914	1914	
5°	1916	1900	1909	1905	1905	182
15°	1824	1816	1828	1833	1835	514
25°	1650	1648	1668	1678	1685	759
35°	1406	1414	1450	1466	1480	879
45°	1130	1145	1191	1226	1253	872
55°	841	862	922	982	1006	751
65°	552	581	660	732	760	547
75°	276	324	420	457	454	294
85°	58	100	107	98	98	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1914.1	1914.1	1914.1	1914.1	1914.1
2.5°	1922.9	1908.8	1915.9	1912.4	1905.3
5°	1915.9	1900.1	1908.8	1905.3	1905.3
7.5°	1900.1	1887.7	1894.8	1893.0	1894.8
10°	1880.7	1868.4	1878.9	1878.9	1877.2
12.5°	1854.3	1843.8	1856.1	1856.1	1857.8
15°	1824.4	1815.6	1827.9	1833.2	1835.0
17.5°	1787.5	1778.7	1794.5	1799.8	1805.0
20°	1745.2	1741.7	1757.5	1762.8	1769.9
22.5°	1697.7	1697.7	1713.6	1720.6	1731.2
25°	1650.2	1648.5	1667.8	1678.4	1685.4
27.5°	1593.9	1595.7	1620.3	1630.9	1639.7
30°	1534.1	1537.6	1565.8	1578.1	1590.4
32.5°	1470.8	1477.8	1509.5	1523.6	1535.9
35°	1405.7	1414.5	1449.7	1465.5	1479.6
37.5°	1340.6	1352.9	1389.9	1405.7	1421.5
40°	1272.0	1282.5	1324.8	1344.1	1363.5
42.5°	1201.6	1215.7	1257.9	1286.1	1308.9
45°	1129.5	1145.3	1191.1	1226.2	1252.6
47.5°	1057.3	1078.5	1122.4	1169.9	1192.8
50°	985.2	1006.3	1055.6	1108.4	1131.2
52.5°	911.3	932.4	988.7	1043.3	1067.9
55°	840.9	862.1	921.9	981.7	1006.3
57.5°	767.1	789.9	856.8	918.4	943.0
60°	694.9	717.8	789.9	855.0	881.4
62.5°	624.6	649.2	724.8	793.4	819.8
65°	552.4	580.6	659.7	731.9	760.0
67.5°	482.1	513.7	596.4	672.1	702.0
70°	411.7	448.6	536.6	614.0	643.9
72.5°	343.1	383.5	476.8	554.2	570.0
75°	276.2	323.7	420.5	457.4	453.9
77.5°	212.9	265.7	357.1	364.2	374.7
80°	154.8	212.9	267.4	281.5	274.5
82.5°	102.0	160.1	191.8	184.7	183.0
85°	58.1	100.3	107.3	98.5	98.5
87.5°	24.6	40.5	35.2	26.4	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)