

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: P261313

Luminaire Tested: **24CZ-LD5-60-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261313
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-LD5-60-S-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5264.0 lumens
Efficiency: N/A
Efficacy: 118.7 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

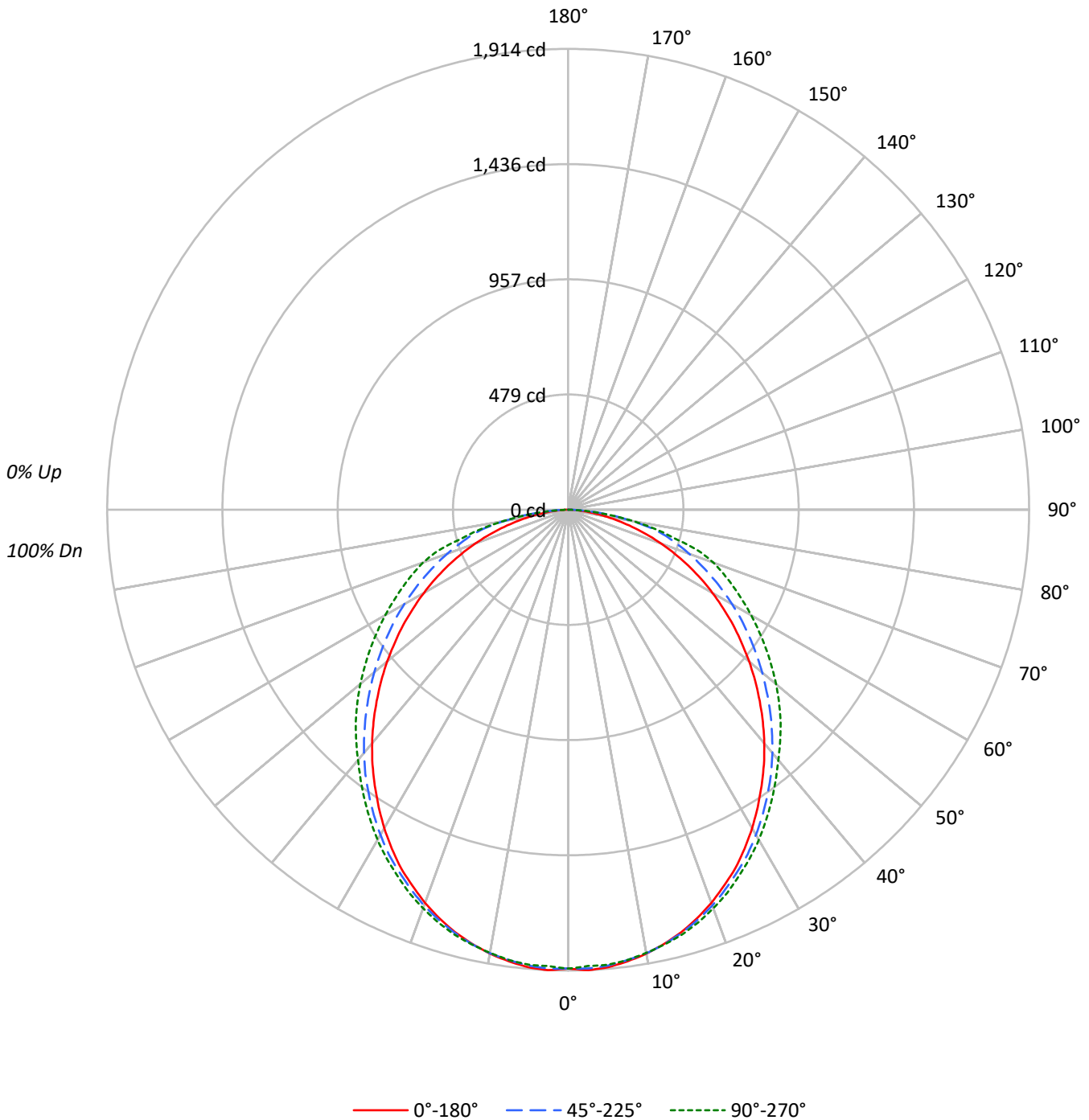
Input Watts (W): 44.361
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2564	2564	2564
5°	2576	2567	2562
10°	2558	2556	2553
15°	2530	2535	2545
20°	2488	2505	2523
25°	2439	2465	2491
30°	2373	2422	2460
35°	2299	2371	2419
40°	2224	2317	2384
45°	2140	2256	2373
50°	2053	2200	2357
55°	1964	2153	2350
60°	1862	2116	2361
65°	1751	2091	2409
70°	1613	2102	2522
75°	1430	2176	2349
80°	1194	2063	2117
85°	892	1649	1514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	3.4
10°-20°	512.4	9.7
20°-30°	763.6	14.5
30°-40°	898.9	17.1
40°-50°	913.5	17.4
50°-60°	821.3	15.6
60°-70°	648.8	12.3
70°-80°	411.6	7.8
80°-90°	113.6	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°	1456.2	27.7
0°-40°	2355.1	44.7
0°-60°	4089.9	77.7
0°-90°	5264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1906	1906	1906	1906	1906	
5°	1907	1892	1900	1897	1897	181
15°	1816	1808	1820	1825	1827	512
25°	1643	1641	1660	1671	1678	755
35°	1400	1408	1443	1459	1473	876
45°	1124	1140	1186	1221	1247	868
55°	837	858	918	977	1002	748
65°	550	578	657	729	757	545
75°	275	322	419	455	452	293
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°	1905.7	1905.7	1905.7	1905.7	1905.7
2.5°	1914.4	1900.4	1907.4	1903.9	1896.9
5°	1907.4	1891.7	1900.4	1896.9	1896.9
7.5°	1891.7	1879.4	1886.4	1884.6	1886.4
10°	1872.4	1860.1	1870.6	1870.6	1868.9
12.5°	1846.1	1835.6	1847.9	1847.9	1849.6
15°	1816.3	1807.6	1819.8	1825.1	1826.8
17.5°	1779.6	1770.8	1786.6	1791.8	1797.1
20°	1737.5	1734.0	1749.8	1755.0	1762.0
22.5°	1690.2	1690.2	1706.0	1713.0	1723.5
25°	1642.9	1641.2	1660.5	1671.0	1678.0
27.5°	1586.9	1588.6	1613.2	1623.7	1632.4
30°	1527.3	1530.8	1558.9	1571.1	1583.4
32.5°	1464.3	1471.3	1502.8	1516.8	1529.1
35°	1399.5	1408.2	1443.3	1459.0	1473.0
37.5°	1334.7	1346.9	1383.7	1399.5	1415.2
40°	1266.4	1276.9	1318.9	1338.2	1357.4
42.5°	1196.3	1210.3	1252.3	1280.4	1303.1
45°	1124.5	1140.2	1185.8	1220.8	1247.1
47.5°	1052.7	1073.7	1117.5	1164.8	1187.5
50°	980.9	1001.9	1050.9	1103.5	1126.2
52.5°	907.3	928.3	984.4	1038.7	1063.2
55°	837.2	858.2	917.8	977.4	1001.9
57.5°	763.7	786.4	853.0	914.3	938.8
60°	691.9	714.6	786.4	851.2	877.5
62.5°	621.8	646.3	721.6	789.9	816.2
65°	550.0	578.0	656.8	728.6	756.7
67.5°	479.9	511.4	593.8	669.1	698.9
70°	409.9	446.6	534.2	611.3	641.1
72.5°	341.5	381.8	474.7	551.7	567.5
75°	275.0	322.3	418.6	455.4	451.9
77.5°	211.9	264.5	355.6	362.6	373.1
80°	154.1	211.9	266.2	280.2	273.2
82.5°	101.6	159.4	190.9	183.9	182.2
85°	57.8	99.8	106.8	98.1	98.1
87.5°	24.5	40.3	35.0	26.3	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)