

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: P261295

Luminaire Tested: **24CZ-LD5-50-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261295
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-LD5-50-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: 4386.0 lumens
Efficiency: N/A
Efficacy: 122.5 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

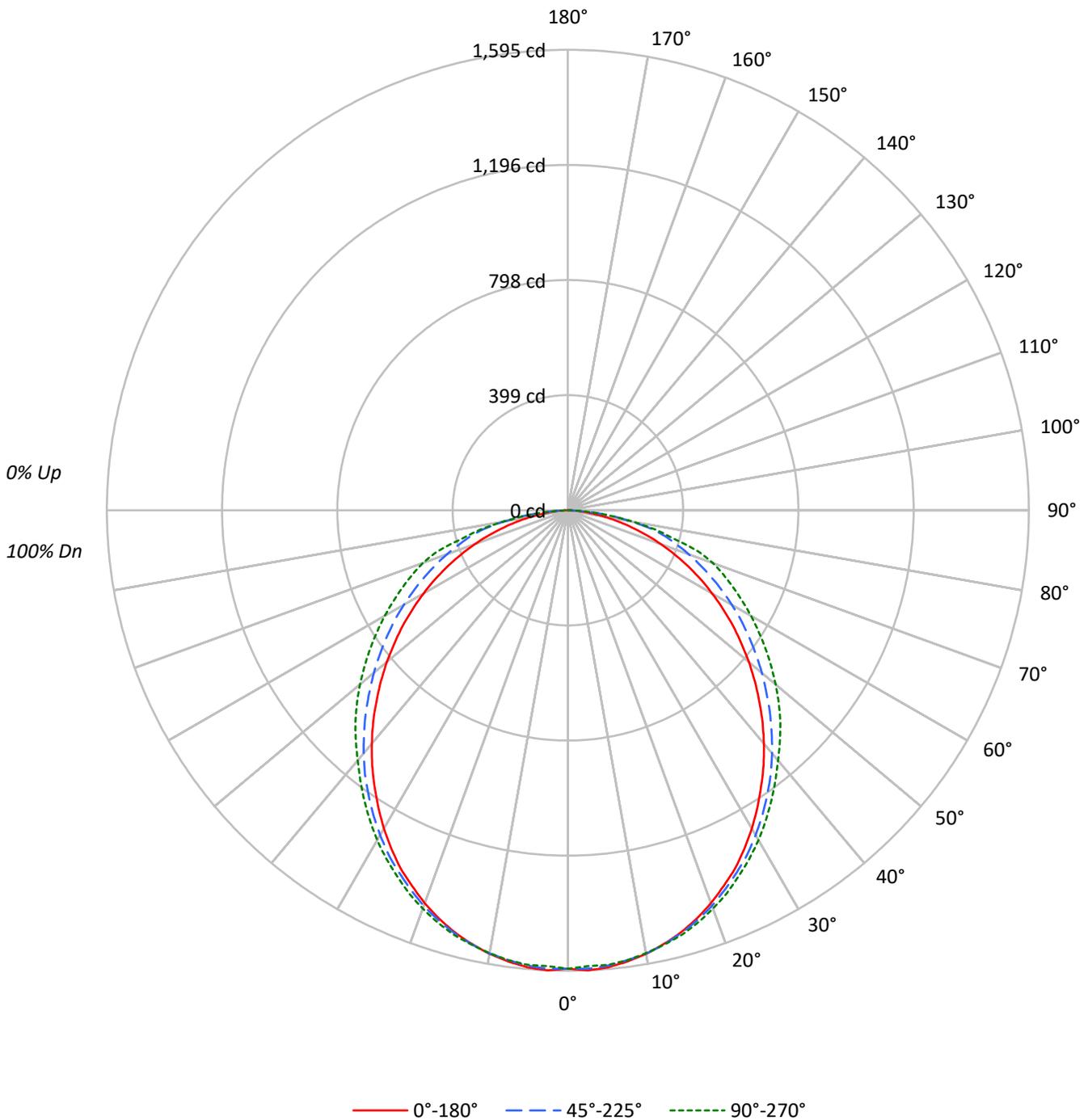
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2136	2136	2136
5°	2147	2139	2135
10°	2131	2129	2128
15°	2108	2112	2120
20°	2073	2087	2102
25°	2032	2054	2076
30°	1977	2018	2050
35°	1915	1975	2016
40°	1853	1930	1987
45°	1783	1880	1977
50°	1711	1833	1964
55°	1636	1794	1958
60°	1551	1763	1968
65°	1459	1742	2007
70°	1343	1751	2101
75°	1191	1813	1957
80°	995	1719	1764
85°	744	1374	1261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	3.4
10°-20°	426.9	9.7
20°-30°	636.3	14.5
30°-40°	749.0	17.1
40°-50°	761.1	17.4
50°-60°	684.3	15.6
60°-70°	540.6	12.3
70°-80°	343.0	7.8
80°-90°	94.7	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°	1213.3	27.7
0°-40°	1962.3	44.7
0°-60°	3407.8	77.7
0°-90°	4386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4386.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1589	1576	1583	1580	1580	151
15°	1513	1506	1516	1521	1522	426
25°	1369	1367	1384	1392	1398	629
35°	1166	1173	1202	1216	1227	730
45°	937	950	988	1017	1039	723
55°	698	715	765	814	835	623
65°	458	482	547	607	630	454
75°	229	268	349	379	376	244
85°	48	83	89	82	82	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1587.8	1587.8	1587.8	1587.8	1587.8
2.5°	1595.1	1583.4	1589.3	1586.4	1580.5
5°	1589.3	1576.1	1583.4	1580.5	1580.5
7.5°	1576.1	1565.9	1571.8	1570.3	1571.8
10°	1560.1	1549.9	1558.6	1558.6	1557.2
12.5°	1538.2	1529.4	1539.7	1539.7	1541.1
15°	1513.4	1506.1	1516.3	1520.7	1522.1
17.5°	1482.7	1475.4	1488.6	1493.0	1497.3
20°	1447.7	1444.8	1457.9	1462.3	1468.1
22.5°	1408.3	1408.3	1421.4	1427.3	1436.0
25°	1368.9	1367.4	1383.5	1392.3	1398.1
27.5°	1322.2	1323.7	1344.1	1352.9	1360.1
30°	1272.6	1275.5	1298.9	1309.1	1319.3
32.5°	1220.0	1225.9	1252.2	1263.8	1274.0
35°	1166.0	1173.3	1202.5	1215.7	1227.3
37.5°	1112.1	1122.3	1152.9	1166.0	1179.2
40°	1055.1	1063.9	1098.9	1115.0	1131.0
42.5°	996.8	1008.4	1043.5	1066.8	1085.8
45°	936.9	950.1	988.0	1017.2	1039.1
47.5°	877.1	894.6	931.1	970.5	989.5
50°	817.3	834.8	875.6	919.4	938.4
52.5°	756.0	773.5	820.2	865.4	885.8
55°	697.6	715.1	764.7	814.3	834.8
57.5°	636.3	655.3	710.7	761.8	782.2
60°	576.5	595.4	655.3	709.3	731.2
62.5°	518.1	538.5	601.3	658.2	680.1
65°	458.2	481.6	547.3	607.1	630.5
67.5°	399.9	426.1	494.7	557.5	582.3
70°	341.5	372.1	445.1	509.3	534.1
72.5°	284.6	318.1	395.5	459.7	472.8
75°	229.1	268.5	348.8	379.4	376.5
77.5°	176.6	220.4	296.3	302.1	310.8
80°	128.4	176.6	221.8	233.5	227.7
82.5°	84.6	132.8	159.1	153.2	151.8
85°	48.2	83.2	89.0	81.7	81.7
87.5°	20.4	33.6	29.2	21.9	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)