

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: P261150

Luminaire Tested: **24CZ-LD5-45-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261150
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-LD5-45-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4319.0 lumens
Efficiency: N/A
Efficacy: 138.2 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

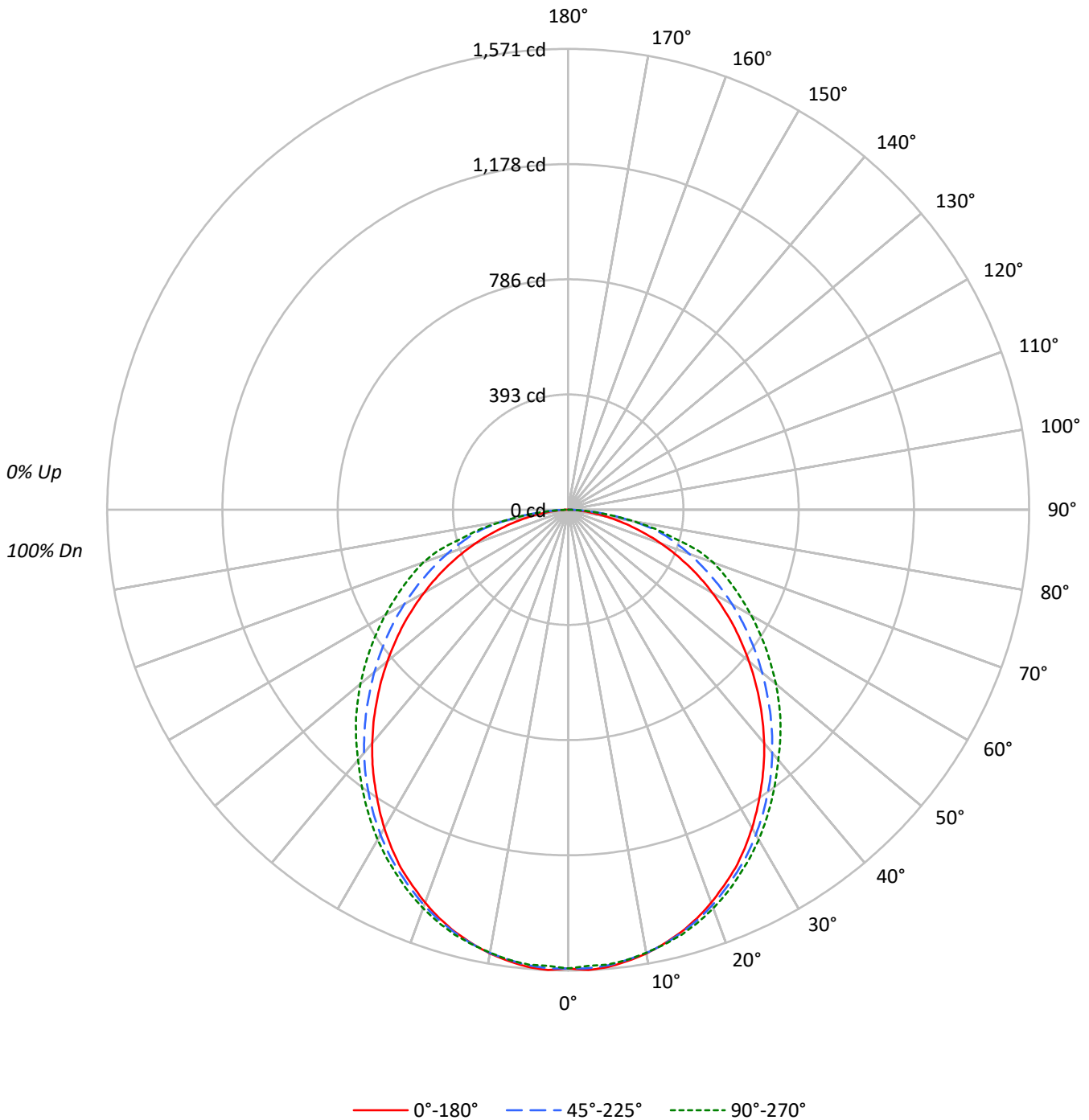
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P261150

CATALOG NUMBER: 24CZ-LD5-45-S-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P261150

CATALOG NUMBER: 24CZ-LD5-45-S-UNV-L82765-W2A1-U-3000K

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°	2104	2104	2104
5°	2114	2106	2102
10°	2099	2097	2095
15°	2076	2080	2088
20°	2041	2056	2070
25°	2001	2023	2044
30°	1947	1987	2018
35°	1886	1945	1985
40°	1825	1901	1956
45°	1756	1851	1947
50°	1685	1805	1934
55°	1611	1766	1928
60°	1528	1736	1938
65°	1436	1716	1976
70°	1323	1724	2069
75°	1173	1786	1928
80°	980	1692	1737
85°	732	1354	1243



TEST NUMBER: P261150

CATALOG NUMBER: 24CZ-LD5-45-S-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	3.4
10°-20°	420.4	9.7
20°-30°	626.5	14.5
30°-40°	737.5	17.1
40°-50°	749.5	17.4
50°-60°	673.9	15.6
60°-70°	532.4	12.3
70°-80°	337.7	7.8
80°-90°	93.2	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°	1194.8	27.7
0°-40°	1932.3	44.7
0°-60°	3355.7	77.7
0°-90°	4319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1565	1552	1559	1556	1556	148
15°	1490	1483	1493	1498	1499	420
25°	1348	1347	1362	1371	1377	620
35°	1148	1155	1184	1197	1209	718
45°	923	936	973	1002	1023	712
55°	687	704	753	802	822	613
65°	451	474	539	598	621	447
75°	226	264	344	374	371	240
85°	47	82	88	80	80	58
90°	0	0	0	0	0	



TEST NUMBER: P261150

CATALOG NUMBER: 24CZ-LD5-45-S-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.6	1563.6	1563.6	1563.6	1563.6
2.5°	1570.7	1559.2	1565.0	1562.1	1556.4
5°	1565.0	1552.1	1559.2	1556.4	1556.4
7.5°	1552.1	1542.0	1547.7	1546.3	1547.7
10°	1536.3	1526.2	1534.8	1534.8	1533.4
12.5°	1514.7	1506.1	1516.1	1516.1	1517.6
15°	1490.3	1483.1	1493.1	1497.5	1498.9
17.5°	1460.1	1452.9	1465.8	1470.1	1474.5
20°	1425.6	1422.7	1435.7	1440.0	1445.7
22.5°	1386.8	1386.8	1399.7	1405.5	1414.1
25°	1348.0	1346.6	1362.4	1371.0	1376.7
27.5°	1302.0	1303.4	1323.6	1332.2	1339.4
30°	1253.1	1256.0	1279.0	1289.1	1299.1
32.5°	1201.4	1207.2	1233.0	1244.5	1254.6
35°	1148.2	1155.4	1184.2	1197.1	1208.6
37.5°	1095.1	1105.1	1135.3	1148.2	1161.2
40°	1039.0	1047.6	1082.1	1097.9	1113.7
42.5°	981.5	993.0	1027.5	1050.5	1069.2
45°	922.6	935.5	972.9	1001.7	1023.2
47.5°	863.7	880.9	916.9	955.7	974.3
50°	804.8	822.0	862.3	905.4	924.1
52.5°	744.4	761.7	807.6	852.2	872.3
55°	686.9	704.2	753.0	801.9	822.0
57.5°	626.6	645.3	699.9	750.2	770.3
60°	567.7	586.3	645.3	698.4	720.0
62.5°	510.2	530.3	592.1	648.1	669.7
65°	451.2	474.2	538.9	597.8	620.8
67.5°	393.8	419.6	487.2	549.0	573.4
70°	336.3	366.5	438.3	501.5	526.0
72.5°	280.2	313.3	389.5	452.7	465.6
75°	225.6	264.4	343.5	373.6	370.8
77.5°	173.9	217.0	291.7	297.5	306.1
80°	126.5	173.9	218.4	229.9	224.2
82.5°	83.4	130.8	156.6	150.9	149.5
85°	47.4	81.9	87.7	80.5	80.5
87.5°	20.1	33.1	28.7	21.6	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)