

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: P260824

Luminaire Tested: **24CZ-LD5-45SE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45SE-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4666.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

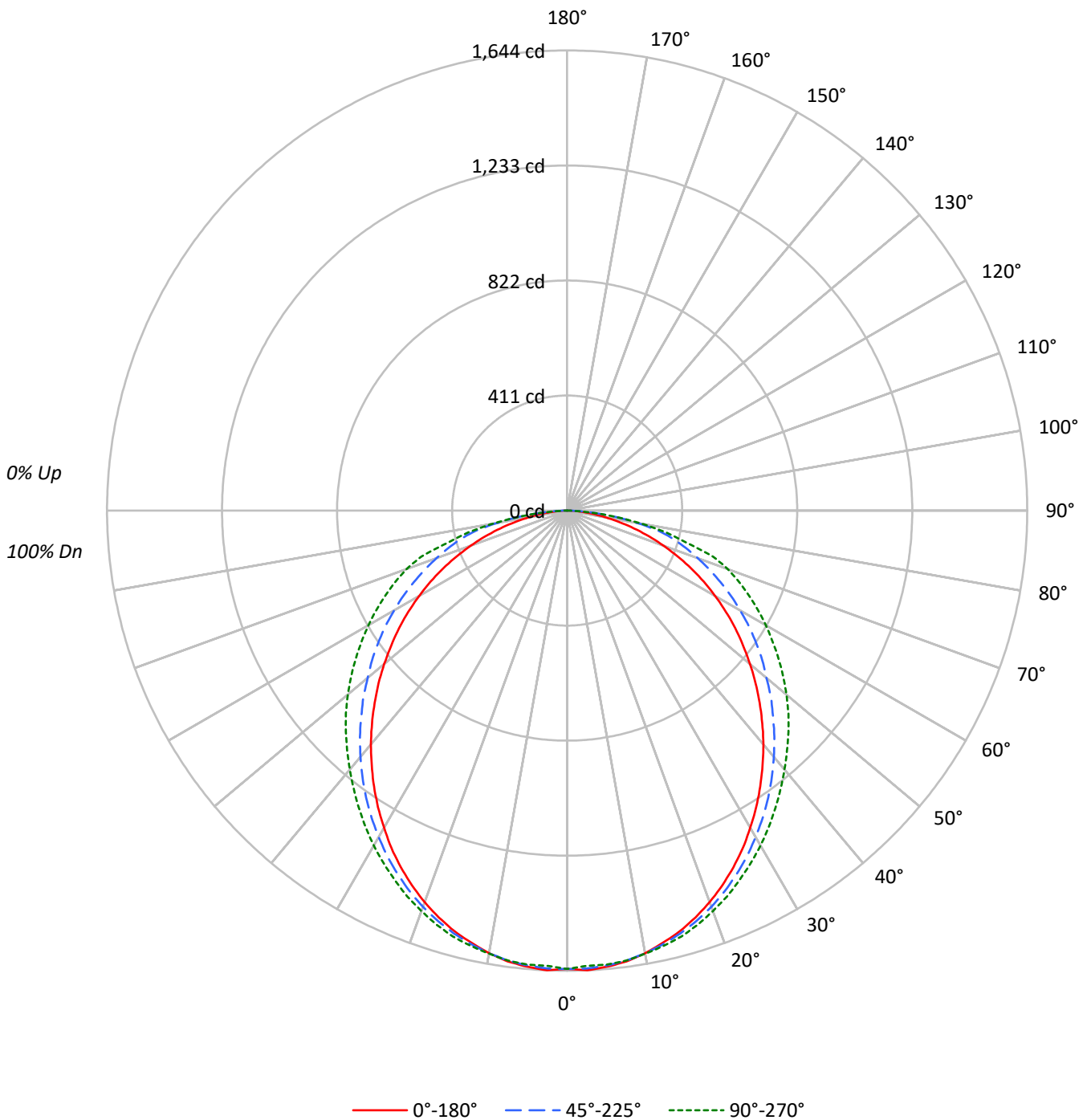
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260824

CATALOG NUMBER: 24CZ-LD5-45SE-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P260824

CATALOG NUMBER: 24CZ-LD5-45SE-UNV-L82765-W2A1-U-5000K

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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2203	2203	2203
5°	2209	2203	2199
10°	2194	2194	2196
15°	2167	2179	2194
20°	2132	2157	2180
25°	2087	2127	2163
30°	2033	2092	2147
35°	1976	2057	2131
40°	1916	2018	2121
45°	1851	1979	2128
50°	1786	1946	2140
55°	1720	1934	2162
60°	1642	1922	2206
65°	1557	1923	2279
70°	1439	1954	2401
75°	1287	2043	2284
80°	1077	1956	2092
85°	814	1505	1431



TEST NUMBER: P260824

CATALOG NUMBER: 24CZ-LD5-45SE-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	3.3
10°-20°	440.4	9.4
20°-30°	658.4	14.1
30°-40°	781.1	16.7
40°-50°	803.9	17.2
50°-60°	737.5	15.8
60°-70°	596.3	12.8
70°-80°	387.0	8.3
80°-90°	106.7	2.3
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°	1253.5	26.9
0°-40°	2034.6	43.6
0°-60°	3576.0	76.6
0°-90°	4666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1636	1625	1631	1630	1628	155
15°	1556	1550	1564	1570	1575	438
25°	1406	1408	1433	1446	1457	647
35°	1203	1213	1252	1280	1297	752
45°	973	989	1040	1090	1118	751
55°	733	756	824	892	922	655
65°	489	518	604	684	716	483
75°	248	294	393	439	439	263
85°	53	90	98	94	93	65
90°	0	0	0	0	0	



TEST NUMBER: P260824

CATALOG NUMBER: 24CZ-LD5-45SE-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1637.5	1637.5	1637.5	1637.5	1637.5
2.5°	1643.9	1631.1	1637.5	1635.9	1627.9
5°	1635.9	1624.7	1631.1	1629.5	1627.9
7.5°	1624.7	1613.6	1621.5	1619.9	1621.5
10°	1605.6	1596.0	1605.6	1607.2	1607.2
12.5°	1581.6	1573.6	1586.4	1589.6	1592.8
15°	1556.0	1549.7	1564.0	1570.4	1575.2
17.5°	1524.1	1519.3	1536.9	1544.9	1551.3
20°	1488.9	1487.4	1506.5	1514.5	1522.5
22.5°	1449.0	1449.0	1471.4	1481.0	1492.1
25°	1405.9	1407.5	1433.0	1445.8	1457.0
27.5°	1359.5	1361.1	1391.5	1407.5	1420.3
30°	1308.4	1314.8	1346.8	1367.5	1381.9
32.5°	1257.3	1265.3	1300.4	1324.4	1340.4
35°	1203.0	1212.6	1252.5	1279.7	1297.2
37.5°	1147.1	1158.2	1201.4	1231.7	1252.5
40°	1091.1	1103.9	1148.7	1183.8	1207.8
42.5°	1032.0	1046.4	1095.9	1137.5	1163.0
45°	972.9	988.9	1040.0	1089.6	1118.3
47.5°	913.8	933.0	987.3	1041.6	1072.0
50°	853.1	872.3	929.8	992.1	1022.5
52.5°	792.4	814.8	878.7	942.6	972.9
55°	733.3	755.7	824.4	891.5	921.8
57.5°	672.6	694.9	770.0	840.3	870.7
60°	610.3	635.8	714.1	786.0	819.6
62.5°	549.6	576.7	659.8	736.5	768.4
65°	488.9	517.6	603.9	683.8	715.7
67.5°	426.6	460.1	549.6	631.0	664.6
70°	365.8	402.6	496.8	578.3	610.3
72.5°	306.7	346.7	444.1	527.2	546.4
75°	247.6	294.0	393.0	439.3	439.3
77.5°	191.7	242.8	335.5	353.1	362.7
80°	139.0	194.9	252.4	273.2	270.0
82.5°	92.7	148.6	180.5	180.5	175.7
85°	52.7	89.5	97.5	94.3	92.7
87.5°	22.4	33.5	30.4	24.0	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)