

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: P260825

Luminaire Tested: **24CZ-LD5-45SE-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260825
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4713.0 lumens
Efficiency: N/A
Efficacy: 130.9 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

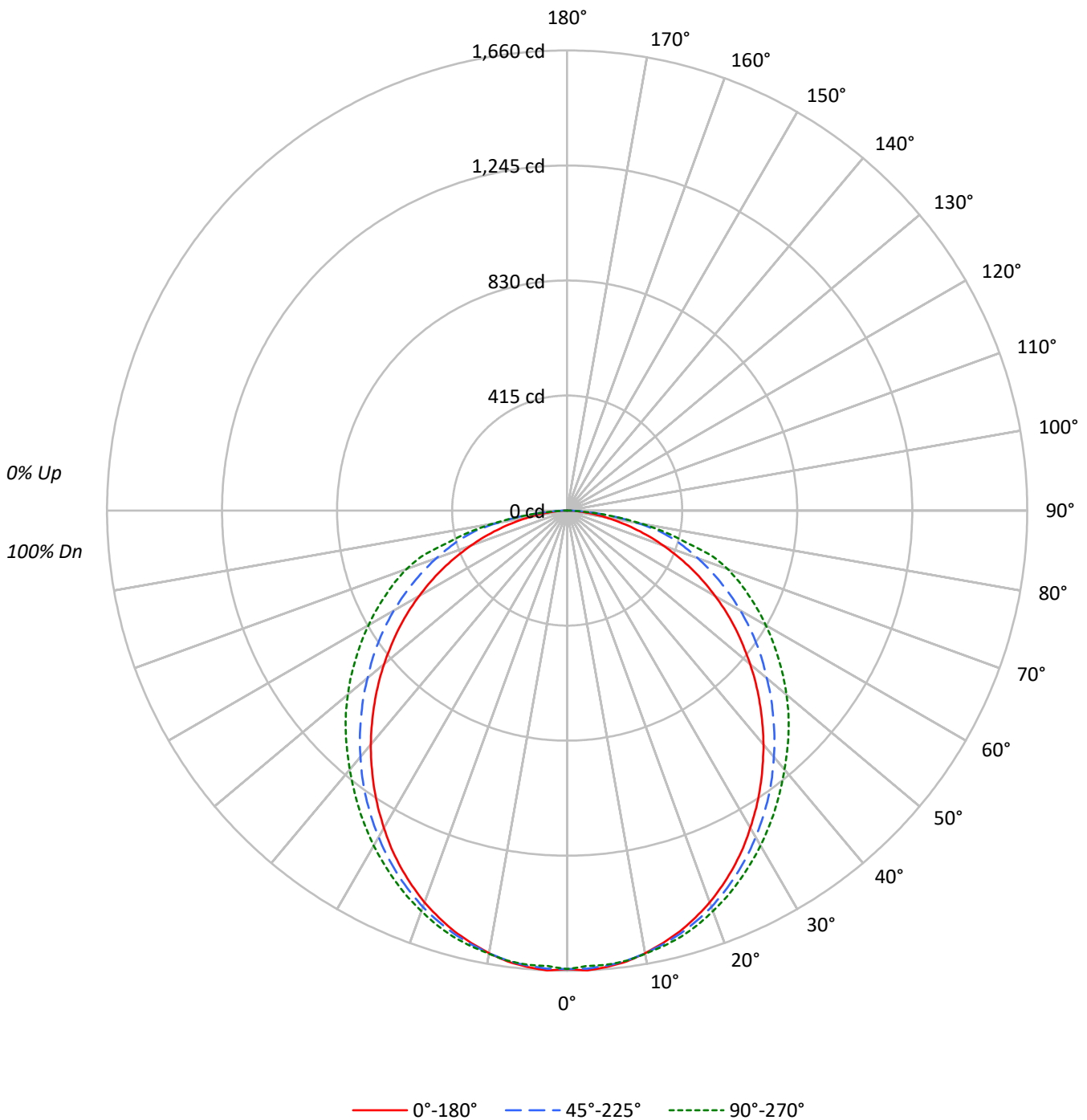
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2225	2225	2225
5°	2232	2225	2221
10°	2216	2216	2218
15°	2189	2201	2216
20°	2153	2179	2202
25°	2108	2149	2185
30°	2053	2113	2169
35°	1996	2078	2152
40°	1936	2038	2143
45°	1870	1999	2149
50°	1804	1966	2162
55°	1738	1953	2184
60°	1659	1941	2228
65°	1572	1942	2301
70°	1454	1974	2425
75°	1300	2064	2307
80°	1088	1976	2113
85°	823	1519	1445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	3.3
10°-20°	444.8	9.4
20°-30°	665.0	14.1
30°-40°	788.9	16.7
40°-50°	812.0	17.2
50°-60°	744.9	15.8
60°-70°	602.3	12.8
70°-80°	390.9	8.3
80°-90°	107.8	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°	1266.2	26.9
0°-40°	2055.1	43.6
0°-60°	3612.0	76.6
0°-90°	4713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1652	1641	1648	1646	1644	157
15°	1572	1565	1580	1586	1591	443
25°	1420	1422	1448	1460	1472	654
35°	1215	1225	1265	1293	1310	760
45°	983	999	1050	1100	1130	758
55°	741	763	833	900	931	662
65°	494	523	610	691	723	488
75°	250	297	397	444	444	266
85°	53	90	98	95	94	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.0	1654.0	1654.0	1654.0	1654.0
2.5°	1660.5	1647.6	1654.0	1652.4	1644.3
5°	1652.4	1641.1	1647.6	1645.9	1644.3
7.5°	1641.1	1629.8	1637.9	1636.3	1637.9
10°	1621.7	1612.1	1621.7	1623.4	1623.4
12.5°	1597.5	1589.5	1602.4	1605.6	1608.8
15°	1571.7	1565.3	1579.8	1586.2	1591.1
17.5°	1539.4	1534.6	1552.4	1560.4	1566.9
20°	1503.9	1502.3	1521.7	1529.8	1537.8
22.5°	1463.6	1463.6	1486.2	1495.9	1507.2
25°	1420.0	1421.6	1447.5	1460.4	1471.7
27.5°	1373.2	1374.9	1405.5	1421.6	1434.6
30°	1321.6	1328.1	1360.3	1381.3	1395.8
32.5°	1270.0	1278.0	1313.5	1337.7	1353.9
35°	1215.1	1224.8	1265.1	1292.6	1310.3
37.5°	1158.6	1169.9	1213.5	1244.1	1265.1
40°	1102.1	1115.1	1160.2	1195.7	1219.9
42.5°	1042.4	1057.0	1107.0	1148.9	1174.8
45°	982.7	998.9	1050.5	1100.5	1129.6
47.5°	923.0	942.4	997.3	1052.1	1082.8
50°	861.7	881.1	939.2	1002.1	1032.8
52.5°	800.4	823.0	887.5	952.1	982.7
55°	740.7	763.3	832.7	900.4	931.1
57.5°	679.4	701.9	777.8	848.8	879.5
60°	616.4	642.2	721.3	793.9	827.8
62.5°	555.1	582.5	666.4	743.9	776.2
65°	493.8	522.8	610.0	690.7	722.9
67.5°	430.9	464.7	555.1	637.4	671.3
70°	369.5	406.6	501.9	584.2	616.4
72.5°	309.8	350.2	448.6	532.5	551.9
75°	250.1	296.9	397.0	443.8	443.8
77.5°	193.6	245.3	338.9	356.6	366.3
80°	140.4	196.9	255.0	275.9	272.7
82.5°	93.6	150.1	182.3	182.3	177.5
85°	53.3	90.4	98.4	95.2	93.6
87.5°	22.6	33.9	30.7	24.2	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)