

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: P261246

Luminaire Tested: **24CZ-LD5-45SE-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261246
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-LD5-45SE-S-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4820.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

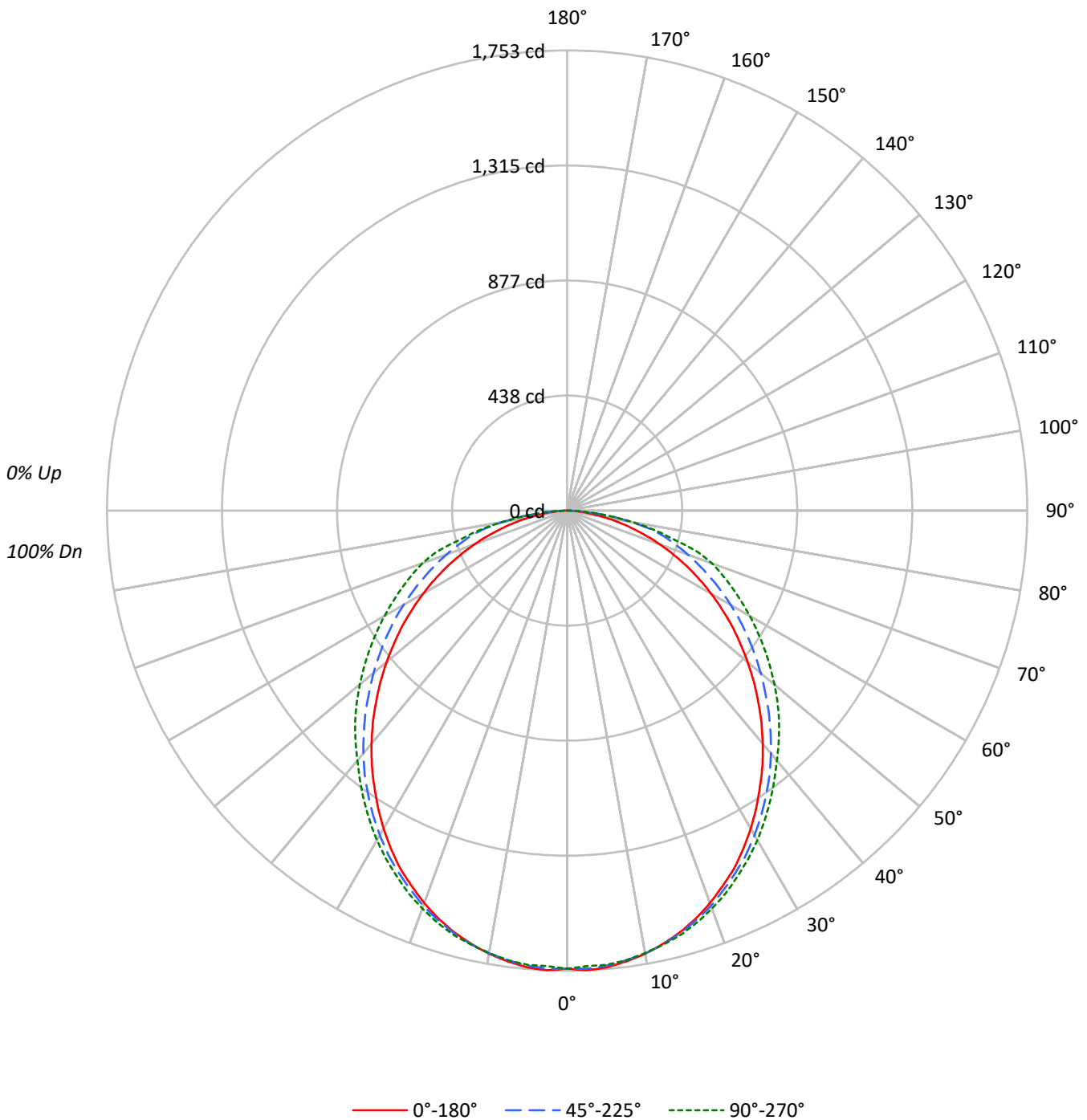
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2348	2348	2348
5°	2359	2350	2346
10°	2342	2340	2338
15°	2317	2321	2330
20°	2278	2294	2310
25°	2233	2257	2281
30°	2173	2218	2252
35°	2105	2171	2215
40°	2037	2121	2183
45°	1959	2066	2173
50°	1880	2014	2159
55°	1798	1971	2152
60°	1705	1938	2162
65°	1603	1915	2206
70°	1476	1924	2309
75°	1309	1993	2151
80°	1093	1889	1939
85°	817	1510	1386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	3.4
10°-20°	469.2	9.7
20°-30°	699.2	14.5
30°-40°	823.1	17.1
40°-50°	836.4	17.4
50°-60°	752.0	15.6
60°-70°	594.1	12.3
70°-80°	376.9	7.8
80°-90°	104.0	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°	1333.4	27.7
0°-40°	2156.5	44.7
0°-60°	3745.0	77.7
0°-90°	4820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1745	1745	1745	1745	1745	
5°	1746	1732	1740	1737	1737	166
15°	1663	1655	1666	1671	1673	468
25°	1504	1503	1520	1530	1536	692
35°	1281	1290	1322	1336	1349	802
45°	1030	1044	1086	1118	1142	794
55°	767	786	840	895	917	685
65°	504	529	601	667	693	499
75°	252	295	383	417	414	268
85°	53	91	98	90	90	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1744.9	1744.9	1744.9	1744.9	1744.9
2.5°	1752.9	1740.1	1746.5	1743.3	1736.9
5°	1746.5	1732.1	1740.1	1736.9	1736.9
7.5°	1732.1	1720.9	1727.3	1725.7	1727.3
10°	1714.5	1703.2	1712.9	1712.9	1711.2
12.5°	1690.4	1680.8	1692.0	1692.0	1693.6
15°	1663.1	1655.1	1666.3	1671.2	1672.8
17.5°	1629.5	1621.4	1635.9	1640.7	1645.5
20°	1591.0	1587.8	1602.2	1607.0	1613.4
22.5°	1547.7	1547.7	1562.1	1568.5	1578.1
25°	1504.4	1502.8	1520.4	1530.0	1536.4
27.5°	1453.0	1454.6	1477.1	1486.7	1494.7
30°	1398.5	1401.7	1427.4	1438.6	1449.8
32.5°	1340.8	1347.2	1376.1	1388.9	1400.1
35°	1281.4	1289.5	1321.5	1336.0	1348.8
37.5°	1222.1	1233.3	1267.0	1281.4	1295.9
40°	1159.5	1169.2	1207.7	1225.3	1242.9
42.5°	1095.4	1108.2	1146.7	1172.4	1193.2
45°	1029.6	1044.1	1085.8	1117.8	1141.9
47.5°	963.9	983.1	1023.2	1066.5	1087.4
50°	898.1	917.4	962.3	1010.4	1031.2
52.5°	830.8	850.0	901.3	951.1	973.5
55°	766.6	785.9	840.4	894.9	917.4
57.5°	699.3	720.1	781.0	837.2	859.6
60°	633.5	654.3	720.1	779.4	803.5
62.5°	569.3	591.8	660.8	723.3	747.4
65°	503.6	529.3	601.4	667.2	692.8
67.5°	439.4	468.3	543.7	612.6	639.9
70°	375.3	409.0	489.2	559.7	587.0
72.5°	312.7	349.6	434.6	505.2	519.6
75°	251.8	295.1	383.3	417.0	413.8
77.5°	194.1	242.2	325.6	332.0	341.6
80°	141.1	194.1	243.8	256.6	250.2
82.5°	93.0	145.9	174.8	168.4	166.8
85°	52.9	91.4	97.8	89.8	89.8
87.5°	22.5	36.9	32.1	24.1	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)