

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: P261303

Luminaire Tested: **24CZ-LD5-55-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261303
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-LD5-55-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4612.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

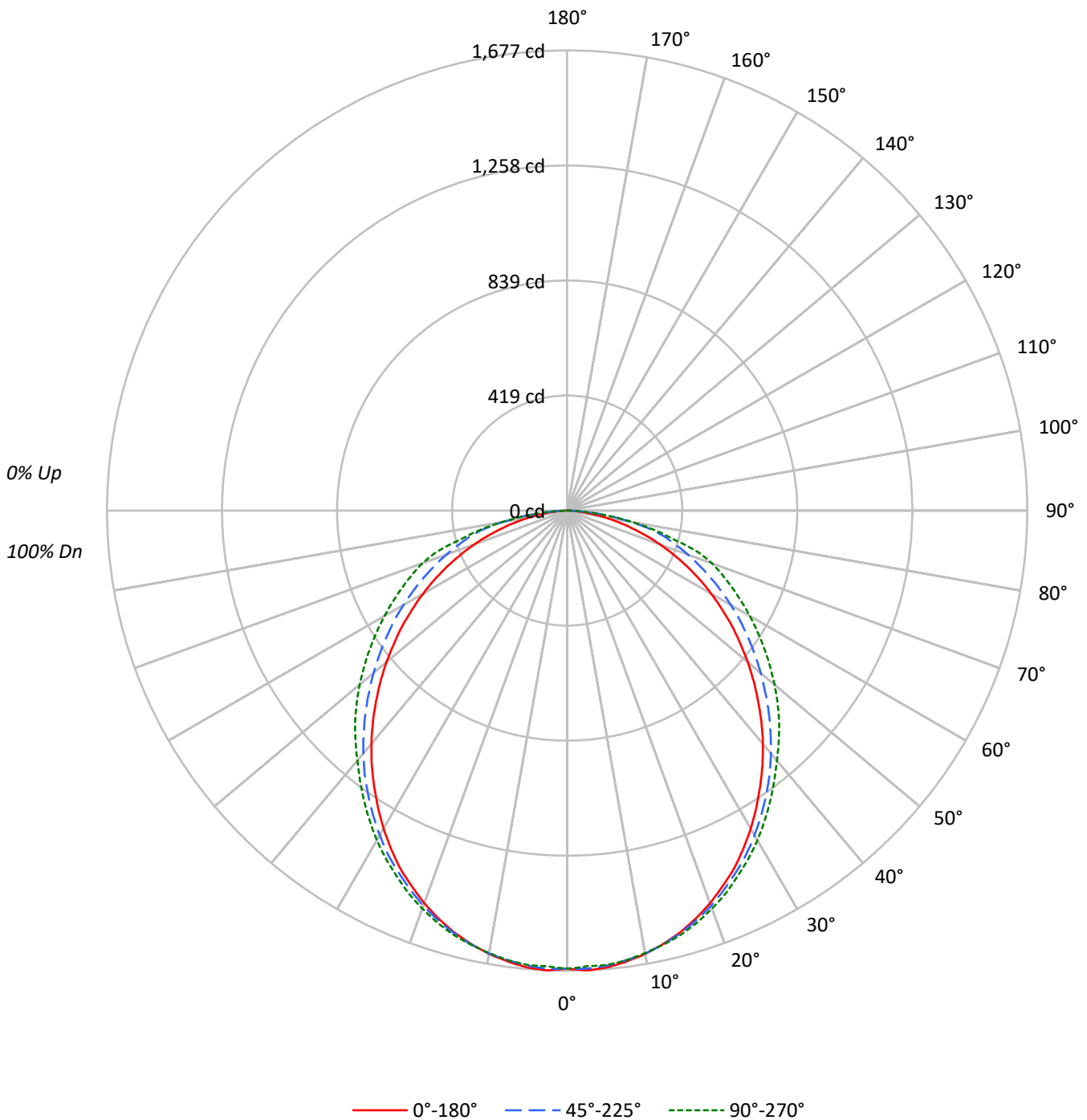
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2246	2246	2246
5°	2257	2249	2245
10°	2241	2239	2237
15°	2217	2221	2230
20°	2180	2195	2210
25°	2137	2160	2182
30°	2079	2122	2155
35°	2014	2077	2120
40°	1949	2030	2089
45°	1875	1977	2079
50°	1799	1927	2065
55°	1721	1886	2059
60°	1631	1854	2069
65°	1534	1832	2110
70°	1413	1841	2210
75°	1252	1907	2058
80°	1046	1808	1855
85°	781	1445	1326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	3.4
10°-20°	448.9	9.7
20°-30°	669.1	14.5
30°-40°	787.6	17.1
40°-50°	800.3	17.4
50°-60°	719.6	15.6
60°-70°	568.5	12.3
70°-80°	360.6	7.8
80°-90°	99.5	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°	1275.9	27.7
0°-40°	2063.4	44.7
0°-60°	3583.3	77.7
0°-90°	4612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1671	1657	1665	1662	1662	158
15°	1591	1584	1594	1599	1601	448
25°	1439	1438	1455	1464	1470	662
35°	1226	1234	1264	1278	1291	767
45°	985	999	1039	1070	1093	760
55°	734	752	804	856	878	655
65°	482	506	576	638	663	477
75°	241	282	367	399	396	256
85°	51	88	94	86	86	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669.6	1669.6	1669.6	1669.6	1669.6
2.5°	1677.3	1665.0	1671.2	1668.1	1662.0
5°	1671.2	1657.4	1665.0	1662.0	1662.0
7.5°	1657.4	1646.6	1652.7	1651.2	1652.7
10°	1640.5	1629.7	1638.9	1638.9	1637.4
12.5°	1617.5	1608.2	1619.0	1619.0	1620.5
15°	1591.4	1583.7	1594.4	1599.0	1600.6
17.5°	1559.1	1551.5	1565.3	1569.9	1574.5
20°	1522.3	1519.2	1533.1	1537.7	1543.8
22.5°	1480.9	1480.9	1494.7	1500.8	1510.0
25°	1439.4	1437.9	1454.8	1464.0	1470.1
27.5°	1390.3	1391.9	1413.4	1422.6	1430.2
30°	1338.2	1341.2	1365.8	1376.5	1387.3
32.5°	1282.9	1289.1	1316.7	1329.0	1339.7
35°	1226.1	1233.8	1264.5	1278.3	1290.6
37.5°	1169.4	1180.1	1212.3	1226.1	1239.9
40°	1109.5	1118.7	1155.5	1172.4	1189.3
42.5°	1048.1	1060.4	1097.2	1121.8	1141.7
45°	985.2	999.0	1038.9	1069.6	1092.6
47.5°	922.3	940.7	979.1	1020.5	1040.4
50°	859.4	877.8	920.8	966.8	986.7
52.5°	794.9	813.3	862.4	910.0	931.5
55°	733.5	751.9	804.1	856.3	877.8
57.5°	669.1	689.0	747.3	801.1	822.5
60°	606.2	626.1	689.0	745.8	768.8
62.5°	544.8	566.3	632.2	692.1	715.1
65°	481.9	506.4	575.5	638.4	662.9
67.5°	420.5	448.1	520.2	586.2	612.3
70°	359.1	391.3	468.0	535.6	561.7
72.5°	299.2	334.5	415.9	483.4	497.2
75°	240.9	282.4	366.8	399.0	395.9
77.5°	185.7	231.7	311.5	317.7	326.9
80°	135.0	185.7	233.3	245.5	239.4
82.5°	89.0	139.6	167.3	161.1	159.6
85°	50.6	87.5	93.6	85.9	85.9
87.5°	21.5	35.3	30.7	23.0	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)