

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: P260884

Luminaire Tested: **24CZ-LD5-55-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260884
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-LD5-55-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4749.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

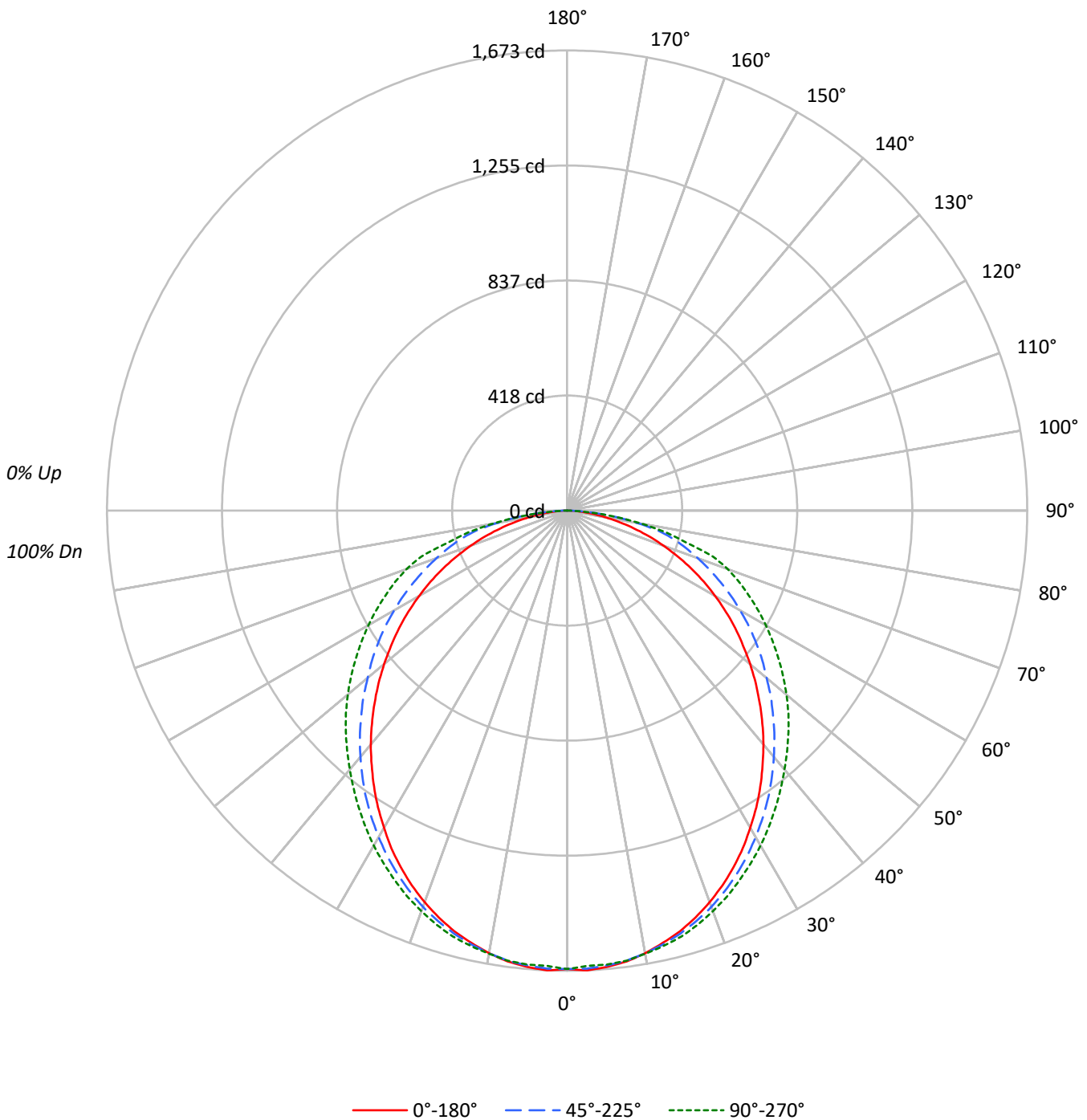
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2243	2243	2243
5°	2249	2242	2238
10°	2233	2233	2235
15°	2206	2217	2233
20°	2170	2195	2219
25°	2124	2165	2201
30°	2069	2130	2185
35°	2011	2094	2169
40°	1951	2053	2159
45°	1884	2014	2166
50°	1818	1981	2178
55°	1751	1968	2201
60°	1671	1956	2245
65°	1584	1957	2319
70°	1465	1989	2443
75°	1310	2079	2325
80°	1096	1991	2129
85°	829	1531	1456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	3.3
10°-20°	448.2	9.4
20°-30°	670.1	14.1
30°-40°	795.0	16.7
40°-50°	818.2	17.2
50°-60°	750.6	15.8
60°-70°	606.9	12.8
70°-80°	393.9	8.3
80°-90°	108.6	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°	1275.8	26.9
0°-40°	2070.8	43.6
0°-60°	3639.6	76.6
0°-90°	4749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1665	1654	1660	1658	1657	158
15°	1584	1577	1592	1598	1603	446
25°	1431	1432	1458	1472	1483	659
35°	1224	1234	1275	1302	1320	766
45°	990	1006	1058	1109	1138	764
55°	746	769	839	907	938	667
65°	498	527	615	696	728	492
75°	252	299	400	447	447	268
85°	54	91	99	96	94	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1666.7	1666.7	1666.7	1666.7	1666.7
2.5°	1673.2	1660.1	1666.7	1665.0	1656.9
5°	1665.0	1653.6	1660.1	1658.5	1656.9
7.5°	1653.6	1642.3	1650.4	1648.8	1650.4
10°	1634.1	1624.4	1634.1	1635.8	1635.8
12.5°	1609.7	1601.6	1614.6	1617.9	1621.1
15°	1583.7	1577.2	1591.9	1598.4	1603.2
17.5°	1551.2	1546.3	1564.2	1572.3	1578.8
20°	1515.4	1513.8	1533.3	1541.4	1549.6
22.5°	1474.8	1474.8	1497.5	1507.3	1518.7
25°	1430.9	1432.5	1458.5	1471.5	1482.9
27.5°	1383.7	1385.4	1416.2	1432.5	1445.5
30°	1331.7	1338.2	1370.7	1391.9	1406.5
32.5°	1279.7	1287.8	1323.6	1348.0	1364.2
35°	1224.4	1234.1	1274.8	1302.4	1320.3
37.5°	1167.5	1178.9	1222.8	1253.6	1274.8
40°	1110.6	1123.6	1169.1	1204.9	1229.3
42.5°	1050.4	1065.0	1115.4	1157.7	1183.7
45°	990.2	1006.5	1058.5	1108.9	1138.2
47.5°	930.1	949.6	1004.9	1060.2	1091.0
50°	868.3	887.8	946.3	1009.7	1040.6
52.5°	806.5	829.3	894.3	959.3	990.2
55°	746.3	769.1	839.0	907.3	938.2
57.5°	684.5	707.3	783.7	855.3	886.2
60°	621.1	647.1	726.8	800.0	834.1
62.5°	559.3	587.0	671.5	749.6	782.1
65°	497.6	526.8	614.6	695.9	728.4
67.5°	434.1	468.3	559.3	642.3	676.4
70°	372.4	409.8	505.7	588.6	621.1
72.5°	312.2	352.8	452.0	536.6	556.1
75°	252.0	299.2	400.0	447.2	447.2
77.5°	195.1	247.2	341.5	359.3	369.1
80°	141.5	198.4	256.9	278.0	274.8
82.5°	94.3	151.2	183.7	183.7	178.9
85°	53.7	91.1	99.2	95.9	94.3
87.5°	22.8	34.1	30.9	24.4	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)