

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: P260970

Luminaire Tested: **24CZ-LD5-50SE-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260970
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-LD5-50SE-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4716.0 lumens
Efficiency: N/A
Efficacy: 115.2 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

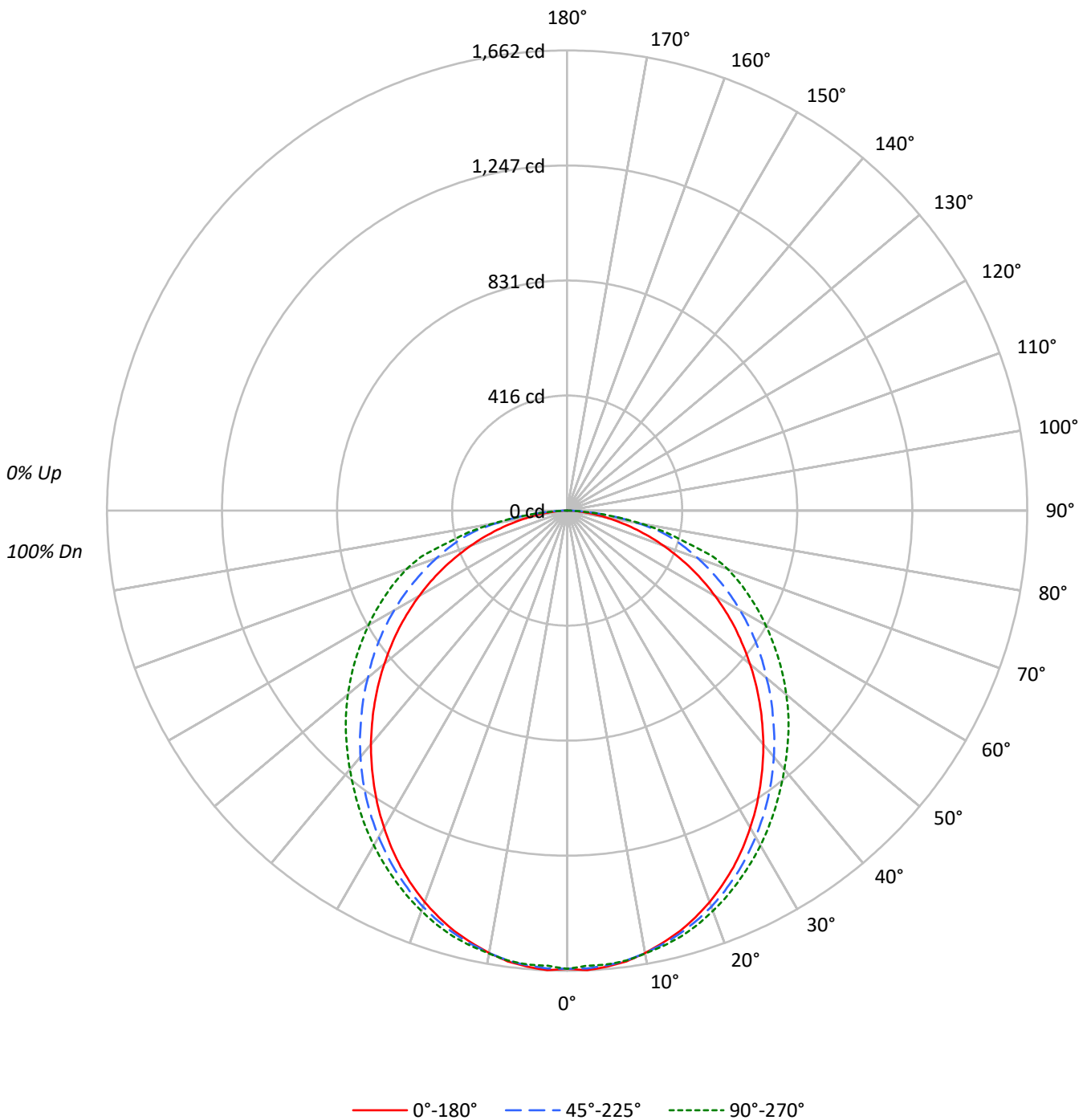
Input Watts (W): 40.92
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2227	2227	2227
5°	2233	2227	2222
10°	2217	2217	2219
15°	2191	2202	2218
20°	2155	2180	2203
25°	2109	2150	2186
30°	2055	2115	2170
35°	1997	2079	2154
40°	1937	2039	2144
45°	1871	2000	2151
50°	1805	1967	2163
55°	1738	1955	2186
60°	1660	1942	2229
65°	1573	1943	2303
70°	1455	1976	2426
75°	1301	2065	2308
80°	1089	1977	2115
85°	823	1521	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	3.3
10°-20°	445.1	9.4
20°-30°	665.4	14.1
30°-40°	789.4	16.7
40°-50°	812.5	17.2
50°-60°	745.4	15.8
60°-70°	602.7	12.8
70°-80°	391.1	8.3
80°-90°	107.9	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°	1267.0	26.9
0°-40°	2056.4	43.6
0°-60°	3614.3	76.6
0°-90°	4716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1654	1642	1649	1647	1645	157
15°	1573	1566	1581	1587	1592	443
25°	1421	1423	1448	1461	1473	654
35°	1216	1226	1266	1293	1311	760
45°	983	1000	1051	1101	1130	759
55°	741	764	833	901	932	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°	1655.1	1655.1	1655.1	1655.1	1655.1
2.5°	1661.5	1648.6	1655.1	1653.5	1645.4
5°	1653.5	1642.2	1648.6	1647.0	1645.4
7.5°	1642.2	1630.9	1638.9	1637.3	1638.9
10°	1622.8	1613.1	1622.8	1624.4	1624.4
12.5°	1598.6	1590.5	1603.4	1606.6	1609.9
15°	1572.7	1566.3	1580.8	1587.3	1592.1
17.5°	1540.4	1535.6	1553.3	1561.4	1567.9
20°	1504.9	1503.3	1522.7	1530.7	1538.8
22.5°	1464.5	1464.5	1487.1	1496.8	1508.1
25°	1420.9	1422.6	1448.4	1461.3	1472.6
27.5°	1374.1	1375.7	1406.4	1422.6	1435.5
30°	1322.4	1328.9	1361.2	1382.2	1396.7
32.5°	1270.8	1278.8	1314.4	1338.6	1354.7
35°	1215.9	1225.6	1265.9	1293.4	1311.1
37.5°	1159.4	1170.7	1214.3	1244.9	1265.9
40°	1102.8	1115.8	1161.0	1196.5	1220.7
42.5°	1043.1	1057.6	1107.7	1149.7	1175.5
45°	983.4	999.5	1051.2	1101.2	1130.3
47.5°	923.6	943.0	997.9	1052.8	1083.5
50°	862.3	881.6	939.8	1002.7	1033.4
52.5°	800.9	823.5	888.1	952.7	983.4
55°	741.1	763.8	833.2	901.0	931.7
57.5°	679.8	702.4	778.3	849.3	880.0
60°	616.8	642.7	721.8	794.4	828.3
62.5°	555.5	582.9	666.9	744.4	776.7
65°	494.1	523.2	610.4	691.1	723.4
67.5°	431.1	465.0	555.5	637.8	671.7
70°	369.8	406.9	502.2	584.5	616.8
72.5°	310.0	350.4	448.9	532.9	552.2
75°	250.3	297.1	397.2	444.0	444.0
77.5°	193.8	245.4	339.1	356.8	366.5
80°	140.5	197.0	255.1	276.1	272.9
82.5°	93.7	150.2	182.5	182.5	177.6
85°	53.3	90.4	98.5	95.3	93.7
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)