

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: P260863

Luminaire Tested: **24CZ-LD5-40-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260863
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-LD5-40-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3866.0 lumens
Efficiency: N/A
Efficacy: 130.7 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

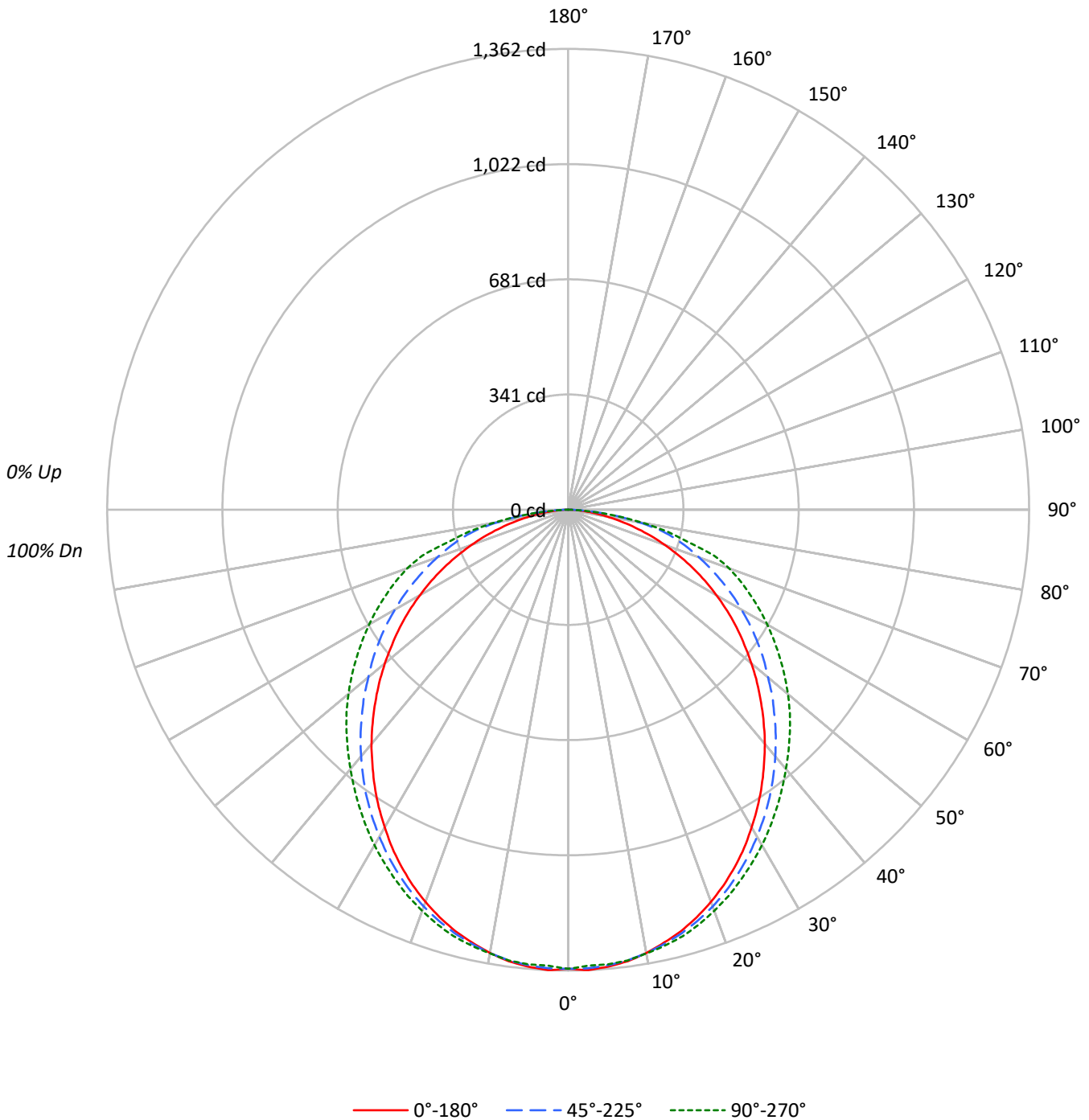
Input Watts (W): 29.574
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1826	1826	1826
5°	1831	1825	1822
10°	1818	1818	1819
15°	1796	1805	1818
20°	1766	1787	1806
25°	1729	1763	1792
30°	1684	1734	1779
35°	1637	1705	1765
40°	1588	1672	1758
45°	1534	1640	1763
50°	1479	1613	1773
55°	1425	1602	1792
60°	1361	1592	1827
65°	1289	1593	1888
70°	1192	1620	1989
75°	1067	1693	1892
80°	893	1620	1733
85°	675	1246	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.3
10°-20°	364.9	9.4
20°-30°	545.5	14.1
30°-40°	647.2	16.7
40°-50°	666.1	17.2
50°-60°	611.0	15.8
60°-70°	494.0	12.8
70°-80°	320.6	8.3
80°-90°	88.4	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°	1038.6	26.9
0°-40°	1685.8	43.6
0°-60°	2962.9	76.6
0°-90°	3866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1355	1346	1352	1350	1349	129
15°	1289	1284	1296	1301	1305	363
25°	1165	1166	1187	1198	1207	536
35°	997	1005	1038	1060	1075	623
45°	806	819	862	903	927	622
55°	608	626	683	739	764	543
65°	405	429	500	566	593	400
75°	205	244	326	364	364	218
85°	44	74	81	78	77	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.8	1356.8	1356.8	1356.8	1356.8
2.5°	1362.1	1351.5	1356.8	1355.4	1348.8
5°	1355.4	1346.2	1351.5	1350.1	1348.8
7.5°	1346.2	1336.9	1343.5	1342.2	1343.5
10°	1330.3	1322.3	1330.3	1331.6	1331.6
12.5°	1310.4	1303.8	1314.4	1317.1	1319.7
15°	1289.3	1284.0	1295.9	1301.2	1305.1
17.5°	1262.8	1258.8	1273.4	1280.0	1285.3
20°	1233.7	1232.3	1248.2	1254.8	1261.5
22.5°	1200.6	1200.6	1219.1	1227.0	1236.3
25°	1164.8	1166.2	1187.3	1197.9	1207.2
27.5°	1126.4	1127.8	1152.9	1166.2	1176.7
30°	1084.1	1089.4	1115.9	1133.1	1145.0
32.5°	1041.7	1048.3	1077.5	1097.3	1110.6
35°	996.7	1004.7	1037.8	1060.3	1074.8
37.5°	950.4	959.7	995.4	1020.6	1037.8
40°	904.1	914.7	951.7	980.8	1000.7
42.5°	855.1	867.0	908.0	942.5	963.6
45°	806.1	819.4	861.7	902.7	926.6
47.5°	757.1	773.0	818.0	863.0	888.2
50°	706.8	722.7	770.4	822.0	847.2
52.5°	656.5	675.1	728.0	781.0	806.1
55°	607.6	626.1	683.0	738.6	763.8
57.5°	557.3	575.8	638.0	696.3	721.4
60°	505.6	526.8	591.7	651.2	679.0
62.5°	455.3	477.8	546.7	610.2	636.7
65°	405.0	428.9	500.3	566.5	593.0
67.5°	353.4	381.2	455.3	522.9	550.6
70°	303.1	333.6	411.7	479.2	505.6
72.5°	254.1	287.2	368.0	436.8	452.7
75°	205.2	243.6	325.6	364.0	364.0
77.5°	158.8	201.2	278.0	292.5	300.5
80°	115.2	161.5	209.1	226.3	223.7
82.5°	76.8	123.1	149.6	149.6	145.6
85°	43.7	74.1	80.7	78.1	76.8
87.5°	18.5	27.8	25.1	19.9	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)