

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: P260860

Luminaire Tested: **24CZ-LD5-40-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260860
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-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3765.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

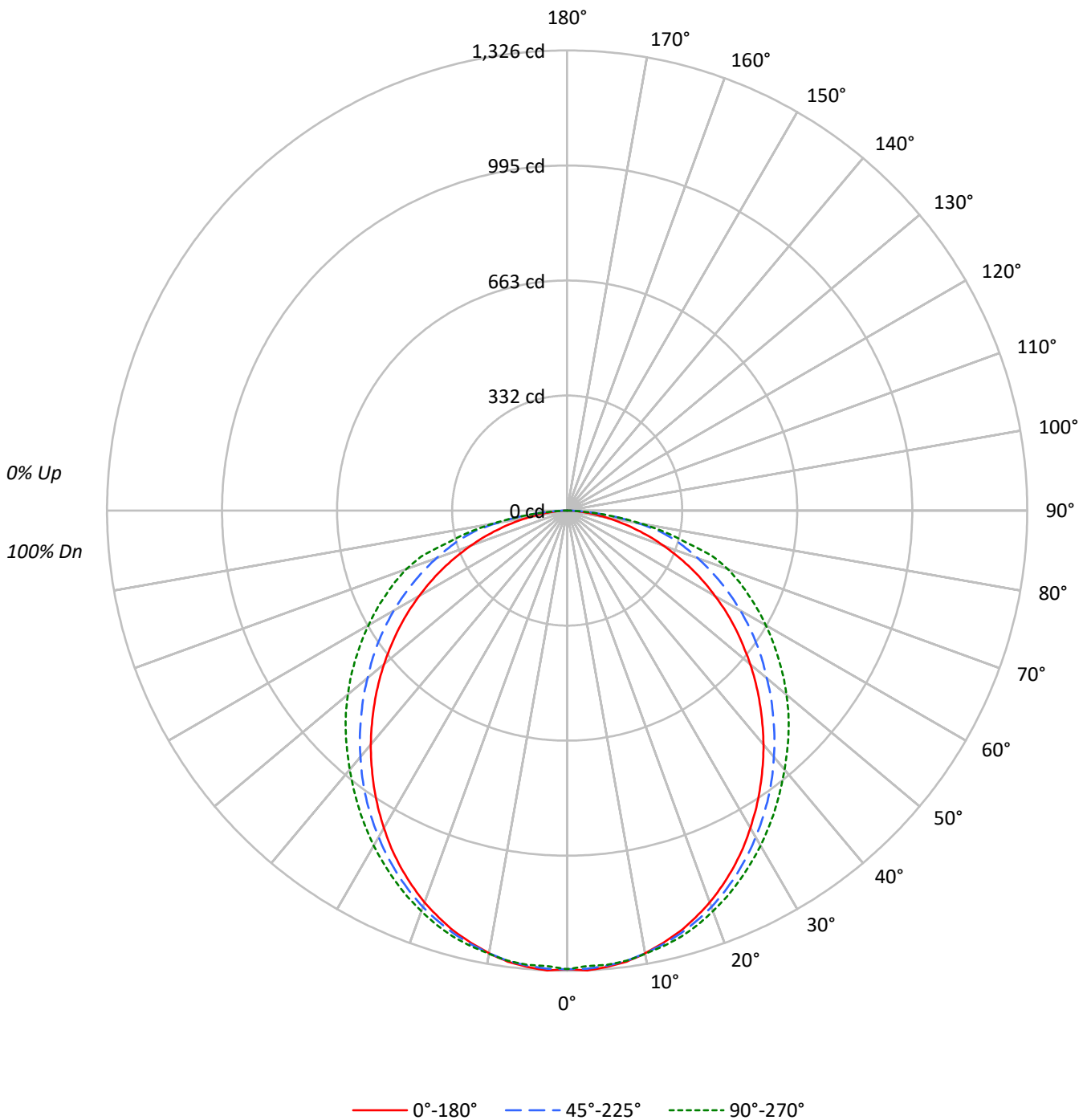
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1778	1778	1778
5°	1783	1778	1774
10°	1770	1770	1772
15°	1749	1758	1770
20°	1720	1741	1759
25°	1684	1717	1745
30°	1640	1688	1732
35°	1594	1660	1719
40°	1546	1628	1712
45°	1494	1597	1717
50°	1441	1571	1727
55°	1388	1560	1745
60°	1325	1551	1780
65°	1256	1551	1839
70°	1161	1577	1937
75°	1039	1648	1843
80°	869	1578	1688
85°	656	1213	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.3
10°-20°	355.4	9.4
20°-30°	531.3	14.1
30°-40°	630.2	16.7
40°-50°	648.7	17.2
50°-60°	595.1	15.8
60°-70°	481.2	12.8
70°-80°	312.3	8.3
80°-90°	86.1	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°	1011.5	26.9
0°-40°	1641.7	43.6
0°-60°	2885.5	76.6
0°-90°	3765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1320	1311	1316	1315	1314	125
15°	1256	1250	1262	1267	1271	354
25°	1134	1136	1156	1167	1176	522
35°	971	978	1011	1033	1047	607
45°	785	798	839	879	902	606
55°	592	610	665	719	744	529
65°	394	418	487	552	578	390
75°	200	237	317	354	354	212
85°	42	72	79	76	75	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.3	1321.3	1321.3	1321.3	1321.3
2.5°	1326.5	1316.2	1321.3	1320.0	1313.6
5°	1320.0	1311.0	1316.2	1314.9	1313.6
7.5°	1311.0	1302.0	1308.4	1307.1	1308.4
10°	1295.5	1287.8	1295.5	1296.8	1296.8
12.5°	1276.2	1269.8	1280.1	1282.6	1285.2
15°	1255.6	1250.4	1262.0	1267.2	1271.0
17.5°	1229.8	1225.9	1240.1	1246.6	1251.7
20°	1201.4	1200.1	1215.6	1222.1	1228.5
22.5°	1169.2	1169.2	1187.3	1195.0	1204.0
25°	1134.4	1135.7	1156.3	1166.6	1175.7
27.5°	1097.0	1098.3	1122.8	1135.7	1146.0
30°	1055.8	1060.9	1086.7	1103.5	1115.1
32.5°	1014.5	1021.0	1049.3	1068.7	1081.5
35°	970.7	978.4	1010.6	1032.6	1046.7
37.5°	925.6	934.6	969.4	993.9	1010.6
40°	880.4	890.8	926.9	955.2	974.6
42.5°	832.8	844.4	884.3	917.8	938.5
45°	785.1	797.9	839.2	879.2	902.4
47.5°	737.4	752.8	796.7	840.5	865.0
50°	688.4	703.8	750.3	800.5	825.0
52.5°	639.4	657.4	709.0	760.6	785.1
55°	591.7	609.7	665.2	719.3	743.8
57.5°	542.7	560.8	621.3	678.1	702.6
60°	492.4	513.1	576.2	634.2	661.3
62.5°	443.4	465.4	532.4	594.3	620.1
65°	394.5	417.7	487.3	551.7	577.5
67.5°	344.2	371.3	443.4	509.2	536.3
70°	295.2	324.9	400.9	466.7	492.4
72.5°	247.5	279.7	358.4	425.4	440.9
75°	199.8	237.2	317.1	354.5	354.5
77.5°	154.7	195.9	270.7	284.9	292.6
80°	112.2	157.3	203.7	220.4	217.9
82.5°	74.8	119.9	145.7	145.7	141.8
85°	42.5	72.2	78.6	76.1	74.8
87.5°	18.0	27.1	24.5	19.3	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)