

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: P260859

Luminaire Tested: **24CZ-LD5-40-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260859
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3690.0 lumens
Efficiency: N/A
Efficacy: 128.0 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

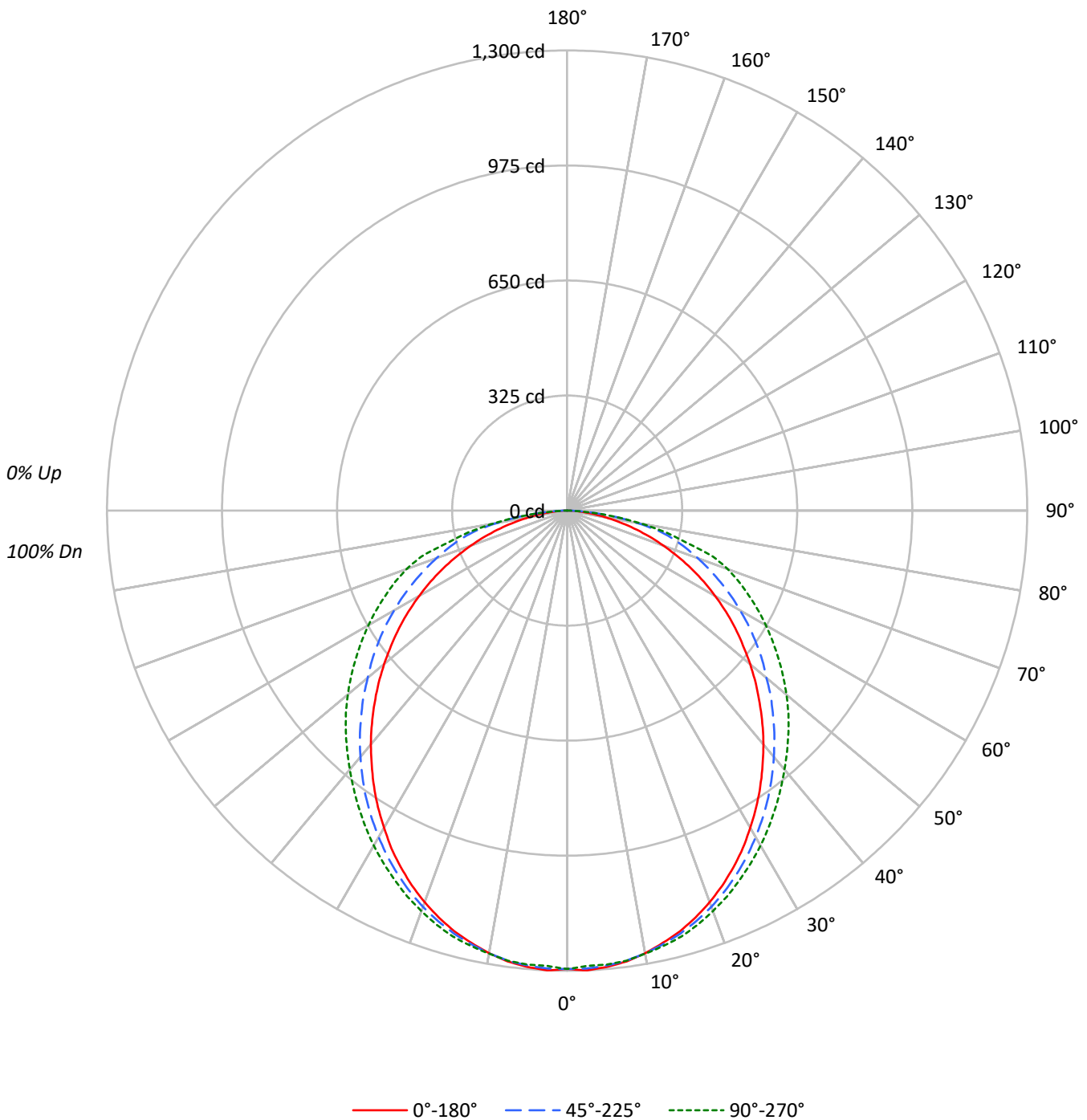
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1742	1742	1742
5°	1747	1742	1739
10°	1735	1735	1736
15°	1714	1723	1735
20°	1686	1706	1724
25°	1651	1682	1711
30°	1608	1655	1698
35°	1563	1627	1685
40°	1516	1596	1678
45°	1464	1565	1683
50°	1412	1539	1693
55°	1360	1529	1710
60°	1299	1520	1744
65°	1231	1521	1802
70°	1138	1546	1899
75°	1018	1616	1806
80°	852	1547	1654
85°	644	1190	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	3.3
10°-20°	348.3	9.4
20°-30°	520.7	14.1
30°-40°	617.7	16.7
40°-50°	635.8	17.2
50°-60°	583.2	15.8
60°-70°	471.6	12.8
70°-80°	306.0	8.3
80°-90°	84.4	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°	991.3	26.9
0°-40°	1609.0	43.6
0°-60°	2828.0	76.6
0°-90°	3690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1294	1285	1290	1289	1287	123
15°	1231	1226	1237	1242	1246	347
25°	1112	1113	1133	1143	1152	512
35°	951	959	990	1012	1026	595
45°	769	782	822	862	884	594
55°	580	598	652	705	729	518
65°	387	409	478	541	566	382
75°	196	232	311	347	347	208
85°	42	71	77	74	73	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.0	1295.0	1295.0	1295.0	1295.0
2.5°	1300.1	1289.9	1295.0	1293.7	1287.4
5°	1293.7	1284.9	1289.9	1288.7	1287.4
7.5°	1284.9	1276.0	1282.4	1281.1	1282.4
10°	1269.7	1262.1	1269.7	1271.0	1271.0
12.5°	1250.8	1244.5	1254.6	1257.1	1259.6
15°	1230.6	1225.5	1236.9	1241.9	1245.7
17.5°	1205.3	1201.5	1215.4	1221.7	1226.8
20°	1177.5	1176.2	1191.4	1197.7	1204.0
22.5°	1145.9	1145.9	1163.6	1171.2	1180.0
25°	1111.8	1113.1	1133.3	1143.4	1152.2
27.5°	1075.2	1076.4	1100.4	1113.1	1123.2
30°	1034.7	1039.8	1065.1	1081.5	1092.9
32.5°	994.3	1000.6	1028.4	1047.4	1060.0
35°	951.3	958.9	990.5	1012.0	1025.9
37.5°	907.1	916.0	950.1	974.1	990.5
40°	862.9	873.0	908.4	936.2	955.1
42.5°	816.2	827.5	866.7	899.5	919.8
45°	769.4	782.1	822.5	861.6	884.4
47.5°	722.7	737.8	780.8	823.7	847.8
50°	674.7	689.8	735.3	784.6	808.6
52.5°	626.7	644.3	694.9	745.4	769.4
55°	579.9	597.6	651.9	705.0	729.0
57.5°	531.9	549.6	609.0	664.6	688.6
60°	482.6	502.8	564.7	621.6	648.1
62.5°	434.6	456.1	521.8	582.4	607.7
65°	386.6	409.3	477.6	540.7	566.0
67.5°	337.3	363.9	434.6	499.0	525.6
70°	289.3	318.4	392.9	457.4	482.6
72.5°	242.6	274.2	351.2	416.9	432.1
75°	195.8	232.5	310.8	347.4	347.4
77.5°	151.6	192.0	265.3	279.2	286.8
80°	109.9	154.1	199.6	216.0	213.5
82.5°	73.3	117.5	142.8	142.8	139.0
85°	41.7	70.8	77.1	74.5	73.3
87.5°	17.7	26.5	24.0	19.0	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)