

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: P260862

Luminaire Tested: **24CZ-LD5-40-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260862
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3840.0 lumens
Efficiency: N/A
Efficacy: 131.9 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

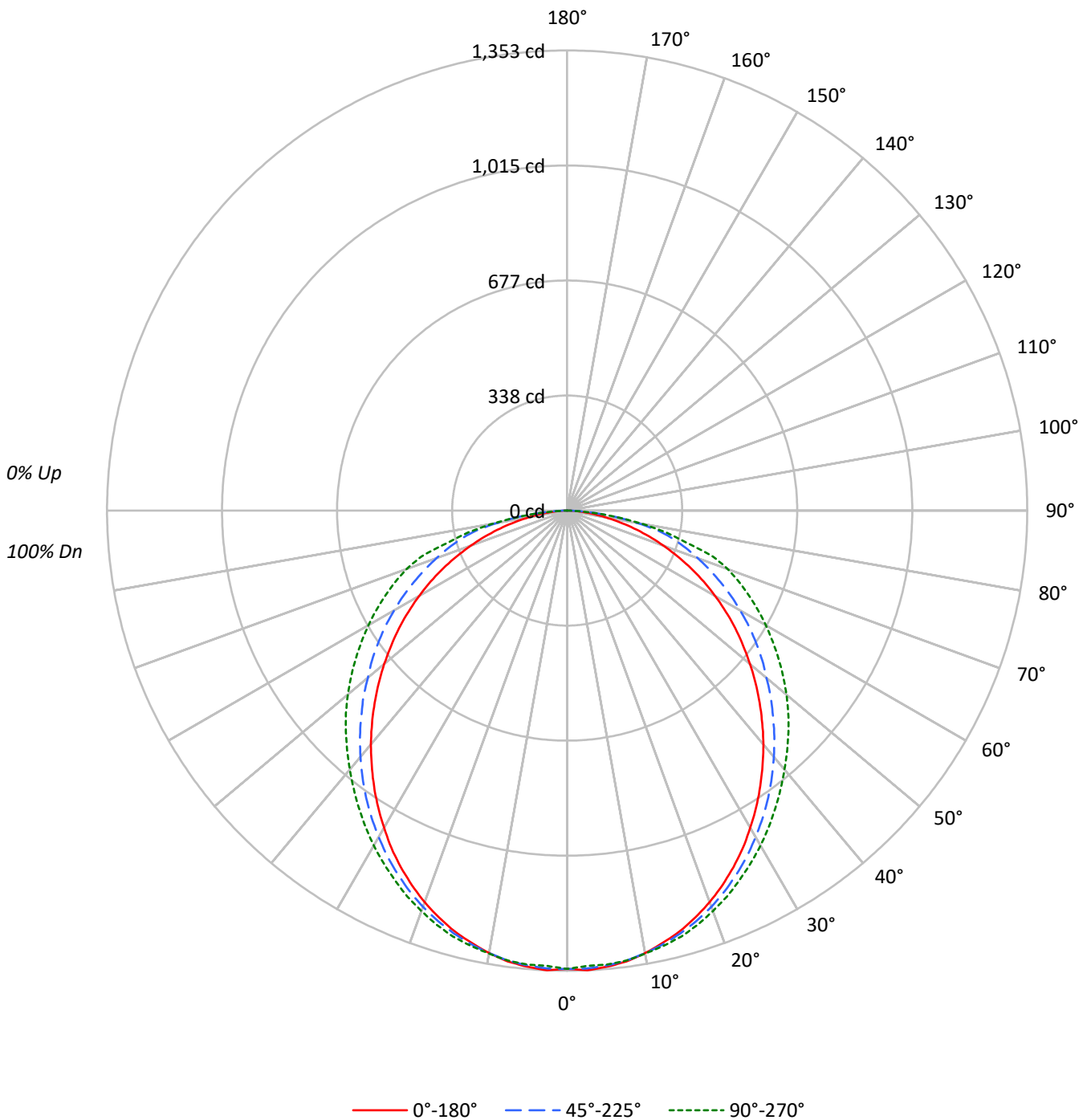
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1813	1813	1813
5°	1818	1813	1810
10°	1805	1805	1807
15°	1784	1793	1806
20°	1755	1775	1794
25°	1718	1751	1780
30°	1673	1722	1767
35°	1626	1693	1754
40°	1577	1660	1746
45°	1524	1629	1751
50°	1470	1602	1761
55°	1416	1591	1780
60°	1351	1581	1815
65°	1281	1582	1875
70°	1185	1609	1976
75°	1059	1681	1880
80°	886	1609	1722
85°	670	1238	1178



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	3.3
10°-20°	362.4	9.4
20°-30°	541.8	14.1
30°-40°	642.8	16.7
40°-50°	661.6	17.2
50°-60°	606.9	15.8
60°-70°	490.7	12.8
70°-80°	318.5	8.3
80°-90°	87.8	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°	1031.6	26.9
0°-40°	1674.4	43.6
0°-60°	2942.9	76.6
0°-90°	3840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1346	1337	1342	1341	1340	128
15°	1281	1275	1287	1292	1296	361
25°	1157	1158	1179	1190	1199	533
35°	990	998	1031	1053	1068	619
45°	801	814	856	897	920	618
55°	604	622	678	734	759	539
65°	402	426	497	563	589	398
75°	204	242	323	362	362	217
85°	43	74	80	78	76	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1347.6	1347.6	1347.6	1347.6	1347.6
2.5°	1352.9	1342.4	1347.6	1346.3	1339.8
5°	1346.3	1337.1	1342.4	1341.1	1339.8
7.5°	1337.1	1327.9	1334.5	1333.2	1334.5
10°	1321.3	1313.5	1321.3	1322.7	1322.7
12.5°	1301.6	1295.0	1305.6	1308.2	1310.8
15°	1280.6	1275.3	1287.2	1292.4	1296.4
17.5°	1254.3	1250.3	1264.8	1271.4	1276.6
20°	1225.4	1224.1	1239.8	1246.4	1253.0
22.5°	1192.5	1192.5	1210.9	1218.8	1228.0
25°	1157.0	1158.3	1179.3	1189.9	1199.1
27.5°	1118.9	1120.2	1145.2	1158.3	1168.8
30°	1076.8	1082.1	1108.4	1125.4	1137.3
32.5°	1034.7	1041.3	1070.2	1089.9	1103.1
35°	990.0	997.9	1030.8	1053.1	1067.6
37.5°	944.0	953.2	988.7	1013.7	1030.8
40°	898.0	908.5	945.3	974.2	994.0
42.5°	849.3	861.2	901.9	936.1	957.2
45°	800.7	813.8	855.9	896.7	920.3
47.5°	752.0	767.8	812.5	857.2	882.2
50°	702.1	717.9	765.2	816.5	841.5
52.5°	652.1	670.5	723.1	775.7	800.7
55°	603.5	621.9	678.4	733.6	758.6
57.5°	553.5	571.9	633.7	691.6	716.6
60°	502.2	523.3	587.7	646.9	674.5
62.5°	452.3	474.6	543.0	606.1	632.4
65°	402.3	426.0	497.0	562.7	589.0
67.5°	351.0	378.7	452.3	519.3	546.9
70°	301.1	331.3	408.9	475.9	502.2
72.5°	252.4	285.3	365.5	433.9	449.7
75°	203.8	241.9	323.4	361.6	361.6
77.5°	157.8	199.8	276.1	290.6	298.5
80°	114.4	160.4	207.7	224.8	222.2
82.5°	76.3	122.3	148.6	148.6	144.6
85°	43.4	73.6	80.2	77.6	76.3
87.5°	18.4	27.6	25.0	19.7	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)