

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: P263538

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5239.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

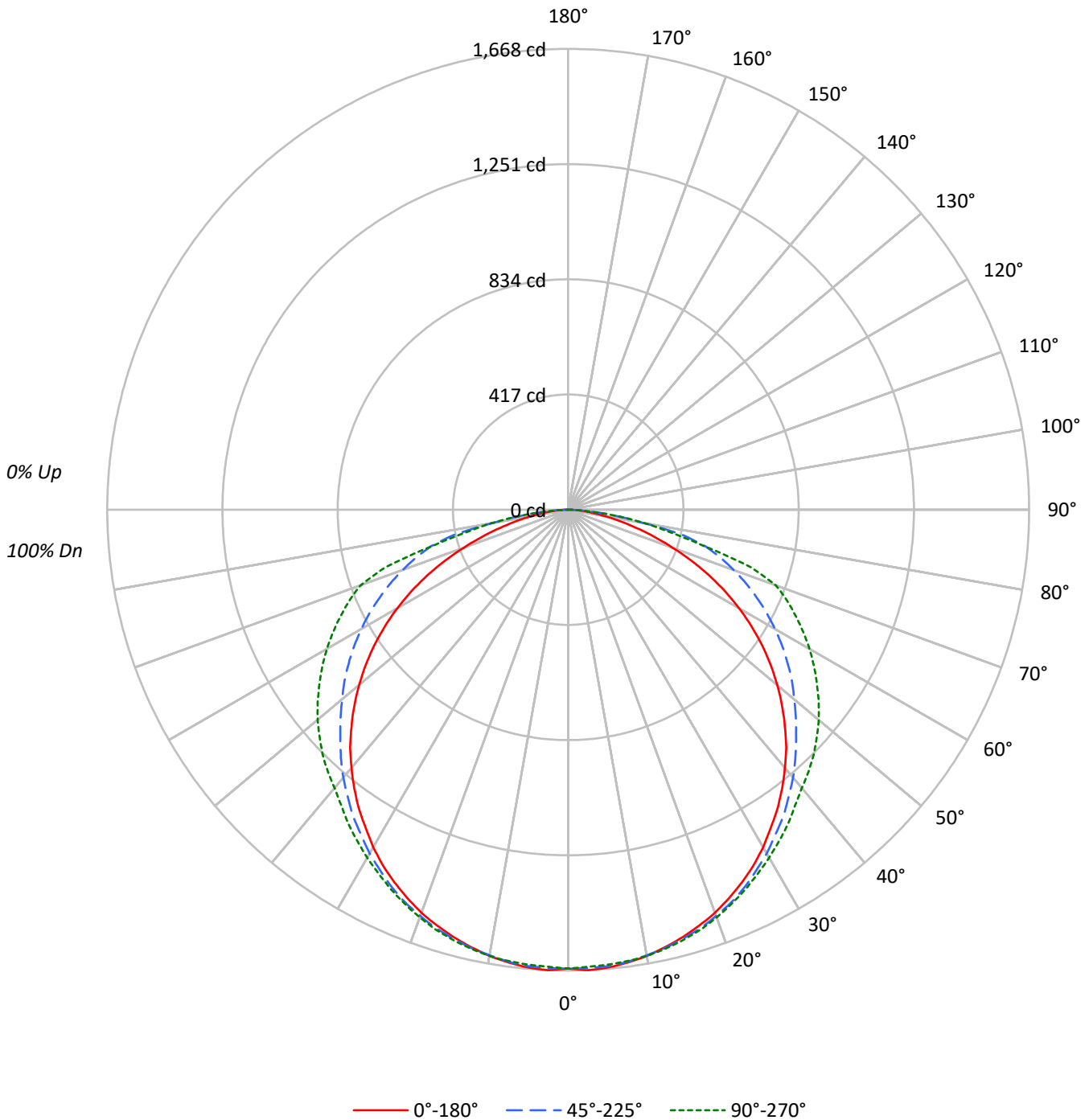
Input Watts (W): 58.404
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2235	2235	2235
5°	2247	2240	2233
10°	2241	2237	2241
15°	2231	2238	2245
20°	2223	2241	2249
25°	2209	2240	2251
30°	2192	2232	2260
35°	2169	2228	2279
40°	2142	2224	2310
45°	2110	2218	2390
50°	2067	2235	2478
55°	2008	2275	2577
60°	1922	2325	2713
65°	1790	2397	2890
70°	1583	2506	3145
75°	1327	2681	2641
80°	1059	2118	2198
85°	837	1433	1314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	3.0
10°-20°	453.3	8.7
20°-30°	692.4	13.2
30°-40°	846.6	16.2
40°-50°	906.1	17.3
50°-60°	869.2	16.6
60°-70°	733.9	14.0
70°-80°	469.0	9.0
80°-90°	110.9	2.1
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°	1303.3	24.9
0°-40°	2149.9	41.0
0°-60°	3925.2	74.9
0°-90°	5239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1661	1661	1661	1661	1661	
5°	1663	1653	1658	1656	1653	158
15°	1602	1596	1607	1612	1612	452
25°	1488	1485	1509	1514	1516	686
35°	1320	1331	1356	1374	1387	826
45°	1109	1127	1166	1220	1256	855
55°	856	885	970	1057	1099	764
65°	562	616	753	859	908	554
75°	255	364	516	526	508	275
85°	54	90	93	90	85	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1660.8	1660.8	1660.8	1660.8	1660.8
2.5°	1668.5	1658.2	1660.8	1660.8	1655.6
5°	1663.4	1653.1	1658.2	1655.6	1653.1
7.5°	1653.1	1645.3	1650.5	1650.5	1647.9
10°	1640.2	1632.4	1637.6	1640.2	1640.2
12.5°	1622.1	1617.0	1624.7	1624.7	1627.3
15°	1601.5	1596.3	1606.7	1611.8	1611.8
17.5°	1578.3	1575.7	1588.6	1591.2	1593.8
20°	1552.5	1549.9	1565.4	1565.4	1570.5
22.5°	1521.5	1519.0	1539.6	1539.6	1544.8
25°	1488.0	1485.4	1508.7	1513.8	1516.4
27.5°	1451.9	1449.3	1472.5	1480.3	1485.4
30°	1410.7	1410.7	1436.4	1446.8	1454.5
32.5°	1364.2	1372.0	1395.2	1410.7	1421.0
35°	1320.4	1330.7	1356.5	1374.5	1387.4
37.5°	1271.4	1281.7	1310.1	1333.3	1348.8
40°	1219.8	1232.7	1266.2	1292.0	1315.2
42.5°	1168.2	1181.1	1217.2	1255.9	1286.9
45°	1108.9	1127.0	1165.7	1219.8	1255.9
47.5°	1049.6	1067.7	1116.7	1183.7	1219.8
50°	987.7	1008.3	1067.7	1145.0	1183.7
52.5°	923.2	946.5	1021.2	1103.8	1142.4
55°	856.2	884.6	969.7	1057.3	1098.6
57.5°	786.6	817.5	918.1	1010.9	1054.8
60°	714.4	753.0	863.9	961.9	1008.3
62.5°	639.6	686.0	809.8	910.3	959.3
65°	562.2	616.4	753.0	858.8	907.8
67.5°	482.3	554.5	696.3	807.2	856.2
70°	402.3	487.4	637.0	750.5	799.5
72.5°	327.5	425.5	577.7	683.4	693.7
75°	255.3	363.6	515.8	526.1	508.0
77.5°	190.8	301.7	425.5	379.1	376.5
80°	136.7	242.4	273.4	281.1	283.7
82.5°	90.3	183.1	177.9	183.1	180.5
85°	54.2	90.3	92.8	90.3	85.1
87.5°	25.8	33.5	25.8	23.2	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)