

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: P263863

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263863
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-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4843.0 lumens
Efficiency: N/A
Efficacy: 81.0 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

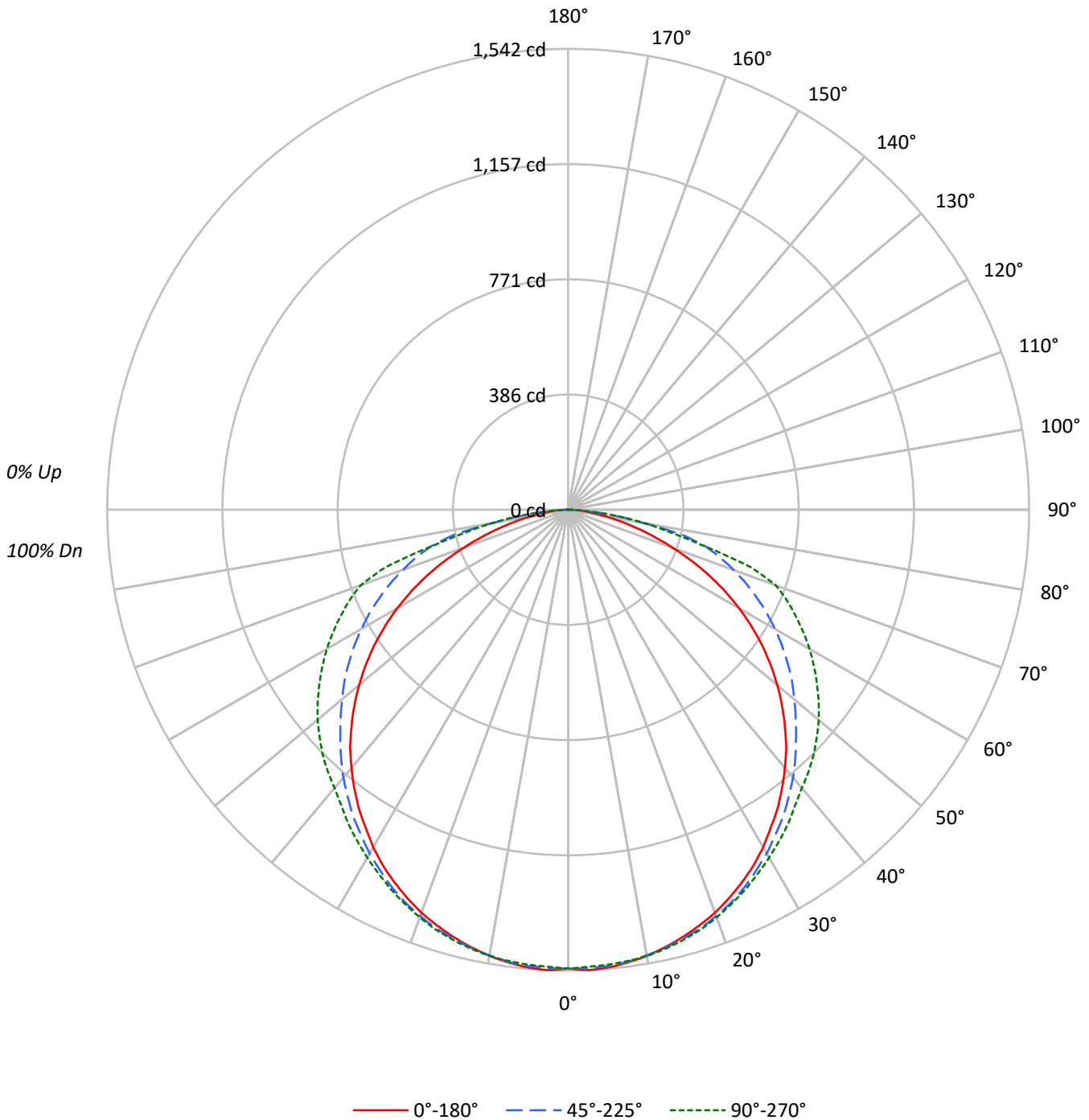
Input Watts (W): 59.799
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2066	2066	2066
5°	2077	2070	2064
10°	2072	2068	2072
15°	2062	2069	2076
20°	2055	2072	2079
25°	2042	2070	2081
30°	2026	2063	2089
35°	2005	2060	2107
40°	1981	2056	2135
45°	1951	2050	2209
50°	1911	2066	2290
55°	1857	2103	2382
60°	1777	2149	2508
65°	1655	2216	2672
70°	1463	2316	2907
75°	1227	2479	2441
80°	979	1958	2032
85°	773	1325	1215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	3.0
10°-20°	419.1	8.7
20°-30°	640.1	13.2
30°-40°	782.6	16.2
40°-50°	837.7	17.3
50°-60°	803.5	16.6
60°-70°	678.4	14.0
70°-80°	433.6	9.0
80°-90°	102.5	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°	1204.8	24.9
0°-40°	1987.4	41.0
0°-60°	3628.5	74.9
0°-90°	4843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4843.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1538	1528	1533	1530	1528	146
15°	1480	1476	1485	1490	1490	418
25°	1376	1373	1395	1399	1402	634
35°	1221	1230	1254	1271	1283	763
45°	1025	1042	1078	1128	1161	791
55°	792	818	896	977	1016	706
65°	520	570	696	794	839	513
75°	236	336	477	486	470	254
85°	50	83	86	83	79	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.3	1535.3	1535.3	1535.3	1535.3
2.5°	1542.4	1532.9	1535.3	1535.3	1530.5
5°	1537.7	1528.1	1532.9	1530.5	1528.1
7.5°	1528.1	1521.0	1525.7	1525.7	1523.4
10°	1516.2	1509.0	1513.8	1516.2	1516.2
12.5°	1499.5	1494.7	1501.9	1501.9	1504.3
15°	1480.4	1475.7	1485.2	1490.0	1490.0
17.5°	1459.0	1456.6	1468.5	1470.9	1473.3
20°	1435.1	1432.8	1447.1	1447.1	1451.8
22.5°	1406.5	1404.2	1423.2	1423.2	1428.0
25°	1375.5	1373.2	1394.6	1399.4	1401.8
27.5°	1342.2	1339.8	1361.2	1368.4	1373.2
30°	1304.0	1304.0	1327.9	1337.4	1344.6
32.5°	1261.1	1268.3	1289.7	1304.0	1313.6
35°	1220.6	1230.1	1254.0	1270.7	1282.6
37.5°	1175.3	1184.8	1211.1	1232.5	1246.8
40°	1127.6	1139.5	1170.5	1194.4	1215.8
42.5°	1079.9	1091.9	1125.2	1161.0	1189.6
45°	1025.1	1041.8	1077.6	1127.6	1161.0
47.5°	970.3	987.0	1032.3	1094.2	1127.6
50°	913.1	932.1	987.0	1058.5	1094.2
52.5°	853.5	874.9	944.0	1020.3	1056.1
55°	791.5	817.7	896.4	977.4	1015.6
57.5°	727.1	755.7	848.7	934.5	975.0
60°	660.4	696.1	798.6	889.2	932.1
62.5°	591.2	634.1	748.6	841.5	886.8
65°	519.7	569.8	696.1	793.9	839.2
67.5°	445.8	512.6	643.7	746.2	791.5
70°	371.9	450.6	588.8	693.7	739.0
72.5°	302.8	393.4	534.0	631.7	641.3
75°	236.0	336.1	476.8	486.3	469.6
77.5°	176.4	278.9	393.4	350.4	348.1
80°	126.3	224.1	252.7	259.9	262.2
82.5°	83.4	169.3	164.5	169.3	166.9
85°	50.1	83.4	85.8	83.4	78.7
87.5°	23.8	31.0	23.8	21.5	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)