

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: P263563

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263563
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-LD5-50SE-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3476.0 lumens
Efficiency: N/A
Efficacy: 87.5 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

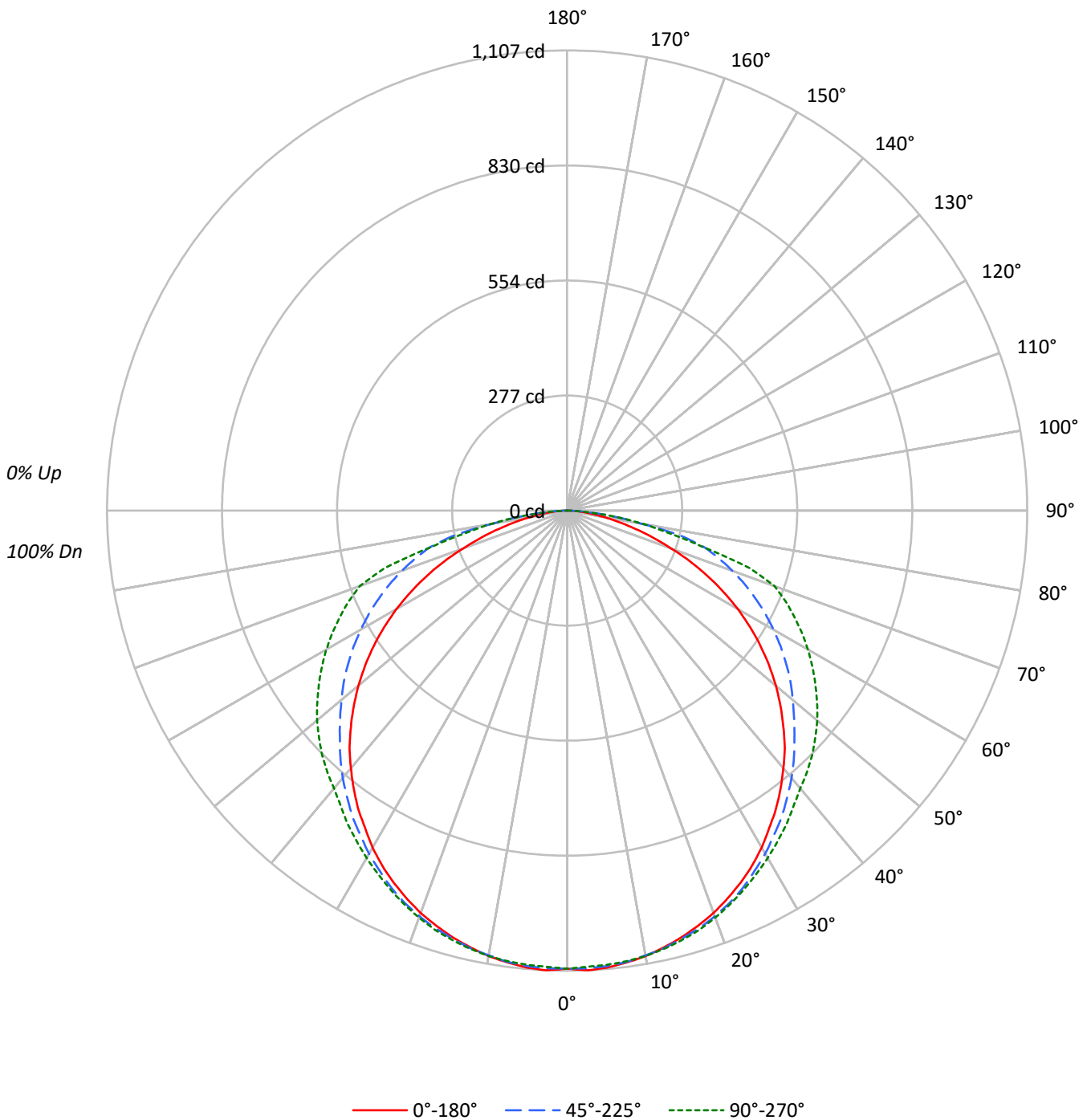
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1483	1483	1483
5°	1491	1486	1481
10°	1487	1484	1487
15°	1480	1485	1490
20°	1475	1487	1492
25°	1466	1486	1494
30°	1454	1481	1499
35°	1439	1478	1512
40°	1421	1476	1533
45°	1400	1472	1586
50°	1372	1483	1644
55°	1333	1509	1710
60°	1276	1542	1800
65°	1188	1591	1918
70°	1050	1662	2087
75°	881	1779	1752
80°	703	1406	1458
85°	554	951	872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	3.0
10°-20°	300.8	8.7
20°-30°	459.4	13.2
30°-40°	561.7	16.2
40°-50°	601.2	17.3
50°-60°	576.7	16.6
60°-70°	486.9	14.0
70°-80°	311.2	9.0
80°-90°	73.6	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°	864.7	24.9
0°-40°	1426.4	41.0
0°-60°	2604.3	74.9
0°-90°	3476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1104	1097	1100	1098	1097	105
15°	1063	1059	1066	1069	1069	300
25°	987	986	1001	1004	1006	455
35°	876	883	900	912	920	548
45°	736	748	773	809	833	567
55°	568	587	643	702	729	507
65°	373	409	500	570	602	368
75°	169	241	342	349	337	182
85°	36	60	62	60	56	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1101.9	1101.9	1101.9	1101.9	1101.9
2.5°	1107.1	1100.2	1101.9	1101.9	1098.5
5°	1103.6	1096.8	1100.2	1098.5	1096.8
7.5°	1096.8	1091.7	1095.1	1095.1	1093.4
10°	1088.2	1083.1	1086.5	1088.2	1088.2
12.5°	1076.3	1072.8	1078.0	1078.0	1079.7
15°	1062.6	1059.1	1066.0	1069.4	1069.4
17.5°	1047.2	1045.5	1054.0	1055.7	1057.4
20°	1030.1	1028.3	1038.6	1038.6	1042.0
22.5°	1009.5	1007.8	1021.5	1021.5	1024.9
25°	987.3	985.6	1001.0	1004.4	1006.1
27.5°	963.3	961.6	977.0	982.1	985.6
30°	935.9	935.9	953.1	959.9	965.0
32.5°	905.1	910.3	925.7	935.9	942.8
35°	876.1	882.9	900.0	912.0	920.5
37.5°	843.6	850.4	869.2	884.6	894.9
40°	809.3	817.9	840.1	857.2	872.6
42.5°	775.1	783.7	807.6	833.3	853.8
45°	735.8	747.7	773.4	809.3	833.3
47.5°	696.4	708.4	740.9	785.4	809.3
50°	655.3	669.0	708.4	759.7	785.4
52.5°	612.6	628.0	677.6	732.3	758.0
55°	568.1	586.9	643.4	701.5	728.9
57.5°	521.9	542.4	609.1	670.7	699.8
60°	474.0	499.6	573.2	638.2	669.0
62.5°	424.3	455.1	537.3	604.0	636.5
65°	373.0	408.9	499.6	569.8	602.3
67.5°	320.0	367.9	462.0	535.6	568.1
70°	266.9	323.4	422.6	497.9	530.4
72.5°	217.3	282.3	383.3	453.4	460.3
75°	169.4	241.3	342.2	349.1	337.1
77.5°	126.6	200.2	282.3	251.5	249.8
80°	90.7	160.8	181.4	186.5	188.2
82.5°	59.9	121.5	118.1	121.5	119.8
85°	35.9	59.9	61.6	59.9	56.5
87.5°	17.1	22.2	17.1	15.4	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)