

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: P260422

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-RDP-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1678.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

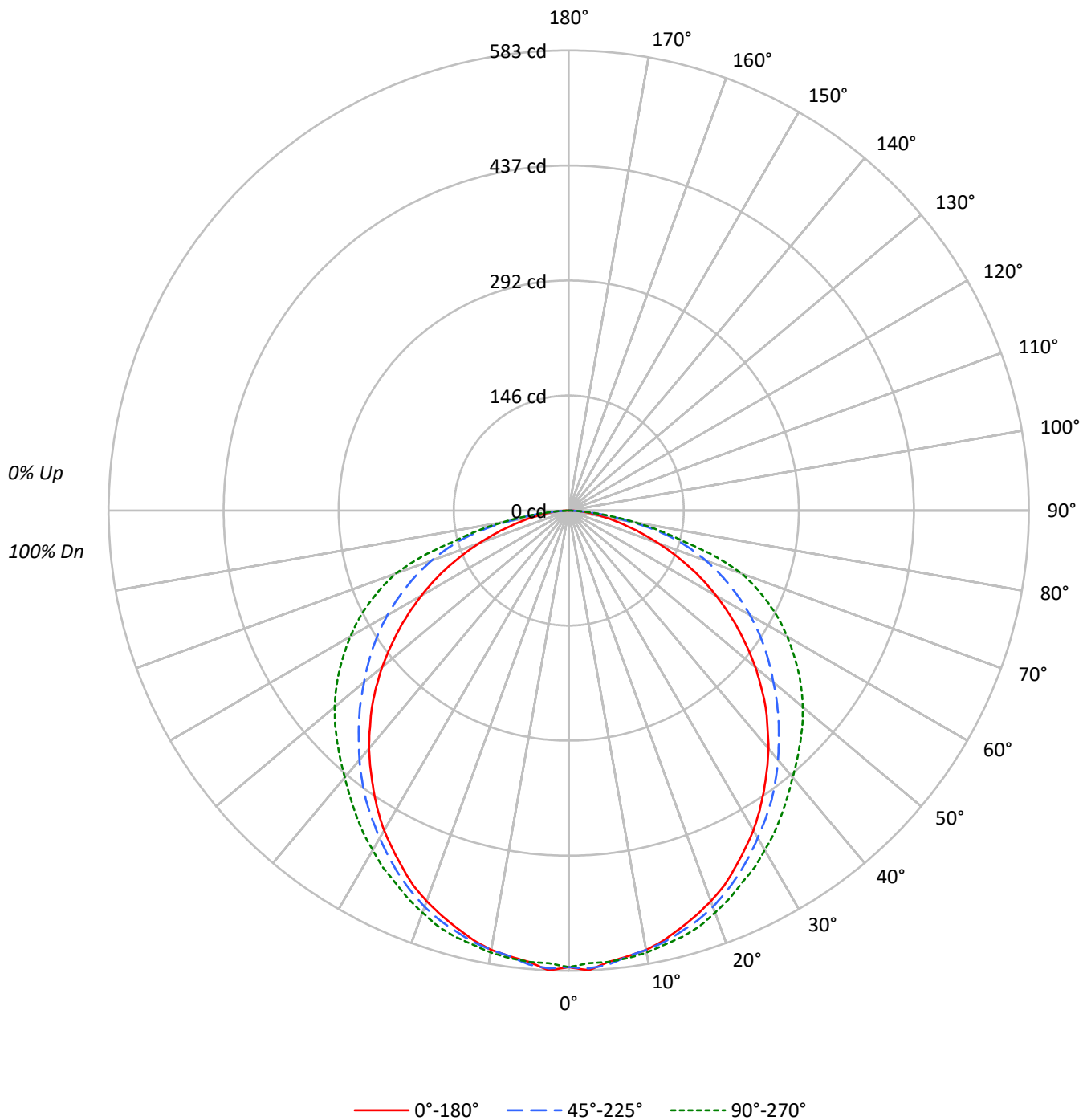
Input Watts (W): 18.315234
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	26		37	30	25		36	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1557	1557	1557
5°	1551	1560	1551
10°	1544	1544	1554
15°	1525	1538	1556
20°	1508	1530	1552
25°	1481	1511	1544
30°	1454	1488	1543
35°	1417	1472	1544
40°	1383	1449	1550
45°	1343	1431	1579
50°	1292	1417	1621
55°	1230	1422	1666
60°	1161	1429	1721
65°	1070	1437	1782
70°	949	1453	1836
75°	805	1449	1564
80°	668	1165	1303
85°	580	784	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	3.3
10°-20°	155.9	9.3
20°-30°	234.6	14.0
30°-40°	281.1	16.8
40°-50°	293.1	17.5
50°-60°	272.9	16.3
60°-70°	221.6	13.2
70°-80°	133.5	8.0
80°-90°	30.6	1.8
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°	445.1	26.5
0°-40°	726.2	43.3
0°-60°	1292.3	77.0
0°-90°	1678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	574	574	577	578	574	55
15°	548	550	552	555	559	155
25°	499	502	509	516	520	230
35°	431	437	448	461	470	270
45°	353	360	376	400	415	272
55°	262	273	303	336	355	234
65°	168	186	226	261	280	166
75°	77	103	139	148	150	84
85°	19	23	25	24	24	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	578.5	578.5	578.5	578.5	578.5
2.5°	582.9	581.8	580.7	577.4	574.1
5°	574.1	574.1	577.4	578.5	574.1
7.5°	569.7	569.7	569.7	574.1	571.9
10°	565.2	565.2	565.2	568.6	568.6
12.5°	557.5	558.6	559.7	560.8	563.0
15°	547.5	549.8	552.0	555.3	558.6
17.5°	537.6	539.8	544.2	547.5	552.0
20°	526.5	528.7	534.3	537.6	542.0
22.5°	514.4	515.5	522.1	526.5	532.1
25°	498.9	502.2	508.8	515.5	519.9
27.5°	483.4	486.7	494.4	503.3	509.9
30°	467.9	471.2	479.0	490.0	496.7
32.5°	450.2	454.6	463.5	476.7	484.5
35°	431.4	436.9	448.0	461.3	470.1
37.5°	412.6	418.1	430.3	446.9	455.7
40°	393.8	399.3	412.6	430.3	441.3
42.5°	372.8	379.4	393.8	414.8	428.1
45°	352.9	359.5	376.1	400.4	414.8
47.5°	330.7	338.5	357.3	384.9	401.5
50°	308.6	317.5	338.5	369.5	387.1
52.5°	285.4	295.3	320.8	352.9	371.7
55°	262.2	273.2	303.1	336.3	355.1
57.5°	238.9	251.1	284.3	318.6	337.4
60°	215.7	229.0	265.5	300.9	319.7
62.5°	192.5	206.8	245.6	281.0	300.9
65°	168.1	185.8	225.7	261.0	279.9
67.5°	143.8	164.8	205.7	240.0	257.7
70°	120.6	143.8	184.7	216.8	233.4
72.5°	98.4	122.8	162.6	190.3	196.9
75°	77.4	102.9	139.4	148.2	150.4
77.5°	59.7	83.0	110.6	112.8	118.4
80°	43.1	63.0	75.2	81.9	84.1
82.5°	29.9	43.1	49.8	50.9	52.0
85°	18.8	23.2	25.4	24.3	24.3
87.5°	10.0	8.8	7.7	5.5	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)