

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: P260427

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260427
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-LD5-29-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: 1962.0 lumens
Efficiency: N/A
Efficacy: 90.4 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

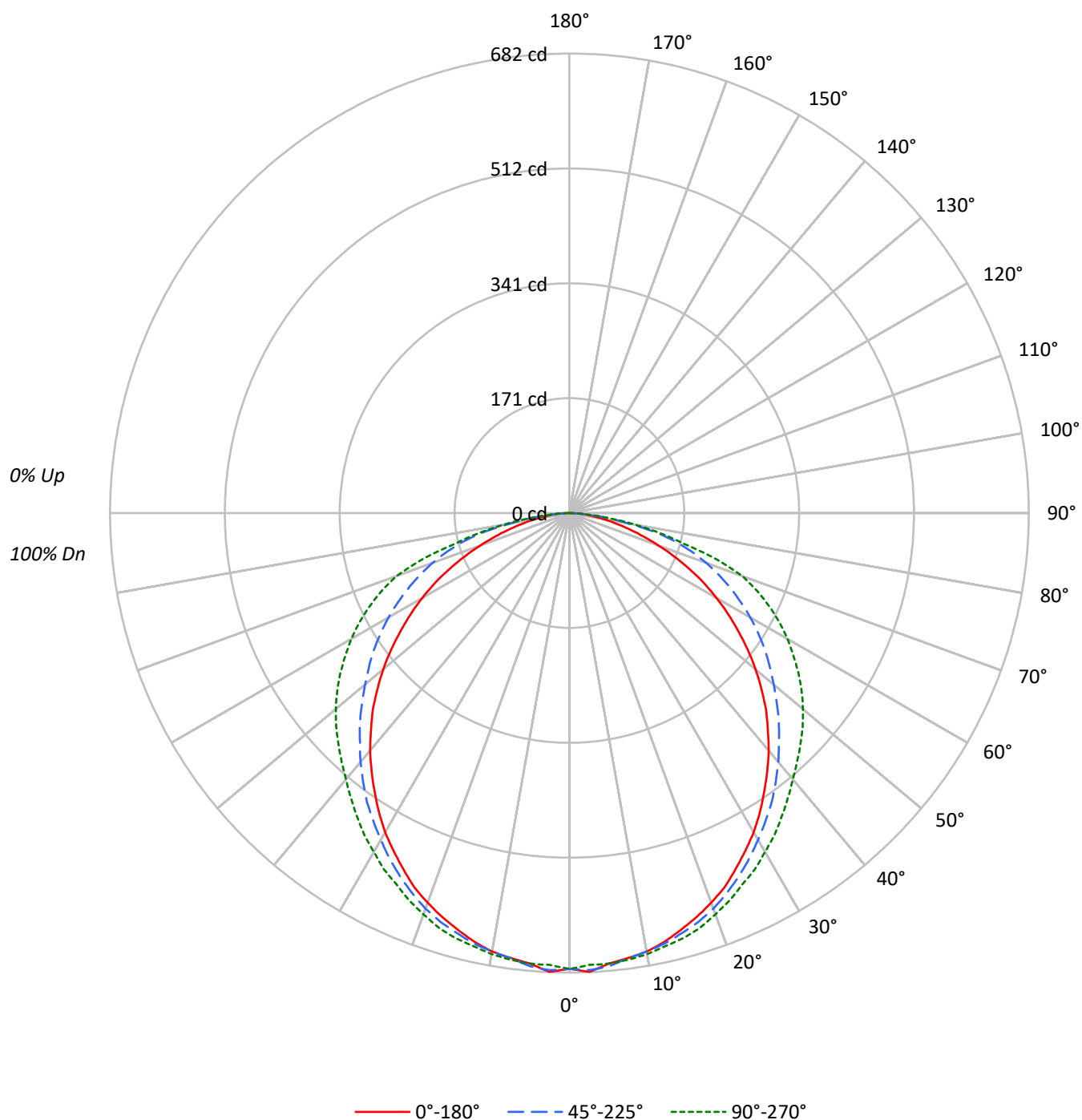
Input Watts (W): 21.706944
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	1820	1820	1820
5°	1813	1824	1813
10°	1806	1806	1817
15°	1784	1798	1819
20°	1763	1789	1815
25°	1732	1766	1805
30°	1700	1740	1804
35°	1657	1721	1806
40°	1617	1695	1813
45°	1570	1673	1846
50°	1510	1657	1895
55°	1438	1663	1948
60°	1357	1671	2012
65°	1252	1680	2083
70°	1109	1699	2147
75°	941	1695	1829
80°	781	1362	1523
85°	679	917	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.3
10°-20°	182.3	9.3
20°-30°	274.3	14.0
30°-40°	328.7	16.8
40°-50°	342.7	17.5
50°-60°	319.1	16.3
60°-70°	259.1	13.2
70°-80°	156.1	8.0
80°-90°	35.8	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°	520.5	26.5
0°-40°	849.1	43.3
0°-60°	1511.0	77.0
0°-90°	1962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	671	671	675	676	671	64
15°	640	643	645	649	653	181
25°	583	587	595	603	608	269
35°	504	511	524	539	550	316
45°	413	420	440	468	485	318
55°	306	320	354	393	415	274
65°	197	217	264	305	327	194
75°	90	120	163	173	176	98
85°	22	27	30	28	28	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.4	676.4	676.4	676.4	676.4
2.5°	681.6	680.3	679.0	675.1	671.3
5°	671.3	671.3	675.1	676.4	671.3
7.5°	666.1	666.1	666.1	671.3	668.7
10°	660.9	660.9	660.9	664.8	664.8
12.5°	651.9	653.1	654.4	655.7	658.3
15°	640.2	642.8	645.4	649.3	653.1
17.5°	628.6	631.2	636.3	640.2	645.4
20°	615.6	618.2	624.7	628.6	633.7
22.5°	601.4	602.7	610.5	615.6	622.1
25°	583.3	587.2	594.9	602.7	607.9
27.5°	565.2	569.1	578.1	588.5	596.2
30°	547.1	551.0	560.0	573.0	580.7
32.5°	526.4	531.6	541.9	557.4	566.5
35°	504.4	510.9	523.8	539.3	549.7
37.5°	482.4	488.9	503.1	522.5	532.9
40°	460.4	466.9	482.4	503.1	516.0
42.5°	435.9	443.6	460.4	485.0	500.5
45°	412.6	420.3	439.7	468.2	485.0
47.5°	386.7	395.8	417.8	450.1	469.5
50°	360.8	371.2	395.8	432.0	452.7
52.5°	333.7	345.3	375.1	412.6	434.6
55°	306.5	319.5	354.4	393.2	415.2
57.5°	279.4	293.6	332.4	372.5	394.5
60°	252.2	267.7	310.4	351.8	373.8
62.5°	225.0	241.9	287.1	328.5	351.8
65°	196.6	217.3	263.8	305.2	327.2
67.5°	168.1	192.7	240.6	280.7	301.4
70°	141.0	168.1	216.0	253.5	272.9
72.5°	115.1	143.6	190.1	222.5	230.2
75°	90.5	120.3	163.0	173.3	175.9
77.5°	69.8	97.0	129.3	131.9	138.4
80°	50.4	73.7	87.9	95.7	98.3
82.5°	34.9	50.4	58.2	59.5	60.8
85°	22.0	27.2	29.7	28.5	28.5
87.5°	11.6	10.3	9.1	6.5	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)