

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: P260424

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260424
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-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1634.0 lumens
Efficiency: N/A
Efficacy: 76.7 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

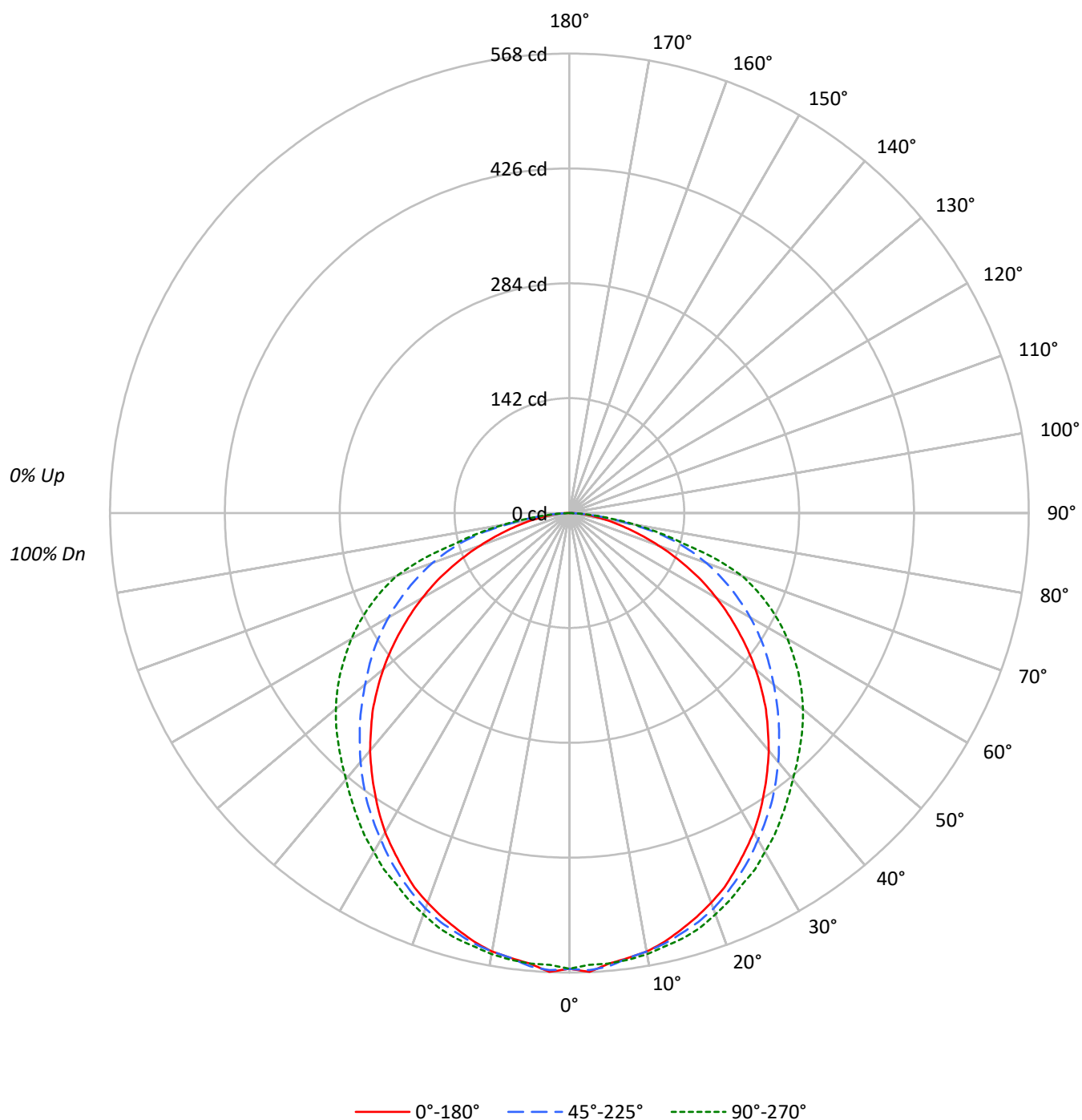
Input Watts (W): 21.311136
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1516	1516	1516
5°	1510	1519	1510
10°	1504	1504	1513
15°	1485	1497	1516
20°	1468	1490	1511
25°	1442	1471	1503
30°	1416	1449	1503
35°	1380	1433	1504
40°	1347	1411	1510
45°	1308	1394	1537
50°	1258	1380	1578
55°	1198	1384	1622
60°	1130	1391	1675
65°	1042	1399	1735
70°	924	1415	1788
75°	784	1411	1523
80°	651	1134	1269
85°	565	766	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	3.3
10°-20°	151.8	9.3
20°-30°	228.4	14.0
30°-40°	273.7	16.8
40°-50°	285.4	17.5
50°-60°	265.8	16.3
60°-70°	215.8	13.2
70°-80°	130.0	8.0
80°-90°	29.8	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°	433.4	26.5
0°-40°	707.2	43.3
0°-60°	1258.4	77.0
0°-90°	1634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	563	563	563	563	563	
5°	559	559	562	563	559	53
15°	533	535	538	541	544	150
25°	486	489	496	502	506	224
35°	420	426	436	449	458	263
45°	344	350	366	390	404	265
55°	255	266	295	327	346	228
65°	164	181	220	254	272	162
75°	75	100	136	144	146	81
85°	18	23	25	24	24	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.3	563.3	563.3	563.3	563.3
2.5°	567.7	566.6	565.5	562.3	559.0
5°	559.0	559.0	562.3	563.3	559.0
7.5°	554.7	554.7	554.7	559.0	556.9
10°	550.4	550.4	550.4	553.6	553.6
12.5°	542.9	544.0	545.0	546.1	548.3
15°	533.2	535.3	537.5	540.7	544.0
17.5°	523.5	525.6	530.0	533.2	537.5
20°	512.7	514.9	520.3	523.5	527.8
22.5°	500.9	501.9	508.4	512.7	518.1
25°	485.8	489.0	495.5	501.9	506.3
27.5°	470.7	473.9	481.5	490.1	496.6
30°	455.6	458.9	466.4	477.2	483.6
32.5°	438.4	442.7	451.3	464.2	471.8
35°	420.1	425.5	436.2	449.2	457.8
37.5°	401.8	407.2	419.0	435.2	443.8
40°	383.5	388.8	401.8	419.0	429.8
42.5°	363.0	369.5	383.5	403.9	416.9
45°	343.6	350.1	366.2	389.9	403.9
47.5°	322.1	329.6	347.9	374.8	391.0
50°	300.5	309.1	329.6	359.8	377.0
52.5°	277.9	287.6	312.4	343.6	361.9
55°	255.3	266.1	295.1	327.4	345.8
57.5°	232.7	244.5	276.8	310.2	328.5
60°	210.0	223.0	258.5	293.0	311.3
62.5°	187.4	201.4	239.1	273.6	293.0
65°	163.7	181.0	219.7	254.2	272.5
67.5°	140.0	160.5	200.3	233.7	251.0
70°	117.4	140.0	179.9	211.1	227.3
72.5°	95.9	119.6	158.3	185.3	191.7
75°	75.4	100.2	135.7	144.3	146.5
77.5°	58.2	80.8	107.7	109.9	115.3
80°	42.0	61.4	73.2	79.7	81.9
82.5°	29.1	42.0	48.5	49.5	50.6
85°	18.3	22.6	24.8	23.7	23.7
87.5°	9.7	8.6	7.5	5.4	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)