

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: P260458

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260458
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-L82765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1849.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

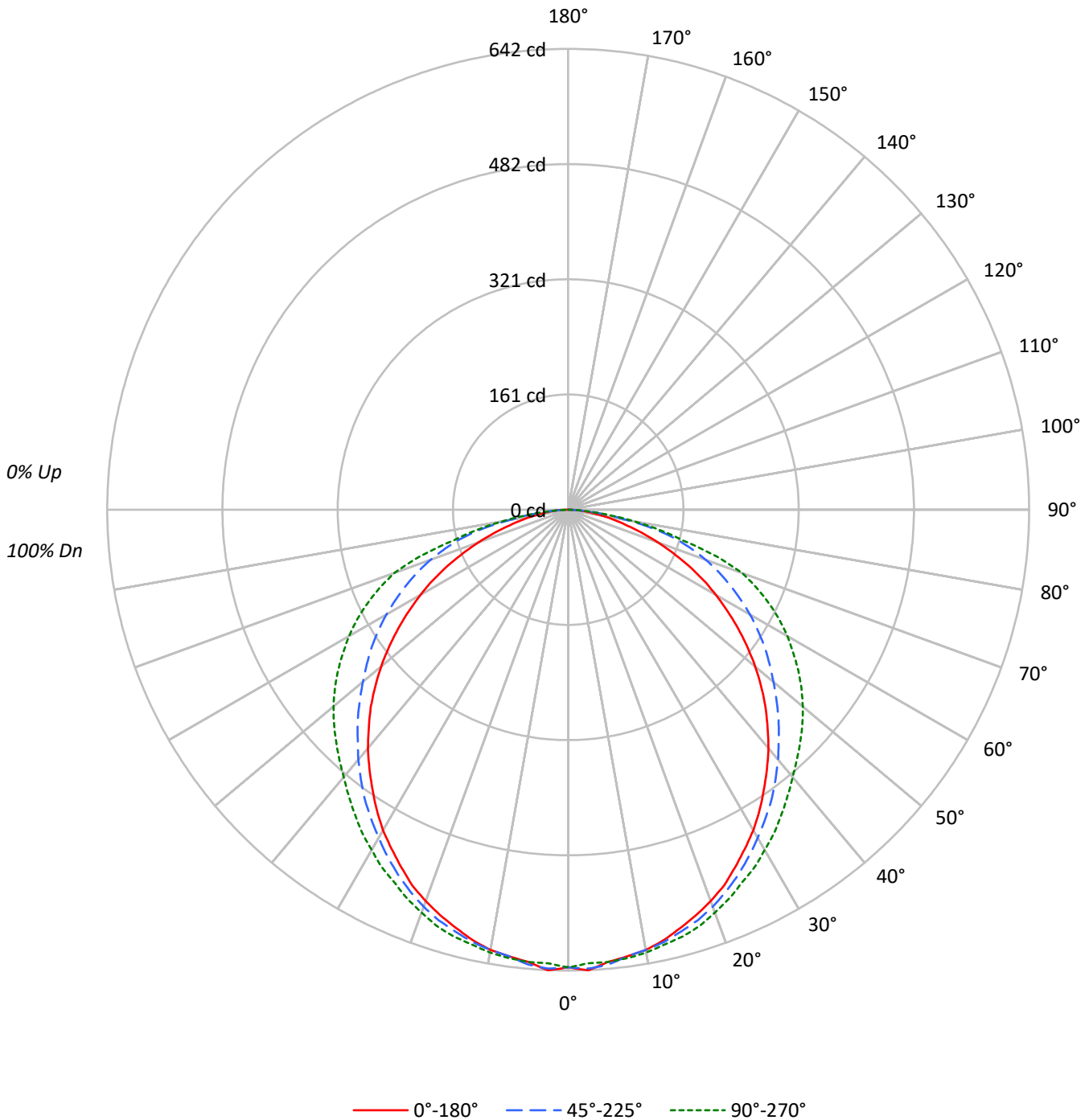
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1715	1715	1715
5°	1709	1719	1709
10°	1702	1702	1712
15°	1681	1694	1715
20°	1662	1686	1710
25°	1632	1665	1701
30°	1602	1640	1701
35°	1562	1622	1702
40°	1524	1597	1708
45°	1480	1577	1740
50°	1424	1562	1786
55°	1355	1567	1836
60°	1279	1574	1896
65°	1180	1583	1964
70°	1046	1602	2024
75°	887	1597	1724
80°	736	1285	1435
85°	639	865	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	3.3
10°-20°	171.8	9.3
20°-30°	258.5	14.0
30°-40°	309.7	16.8
40°-50°	323.0	17.5
50°-60°	300.7	16.3
60°-70°	244.2	13.2
70°-80°	147.2	8.0
80°-90°	33.7	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°	490.5	26.5
0°-40°	800.2	43.3
0°-60°	1423.9	77.0
0°-90°	1849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	633	633	636	638	633	60
15°	603	606	608	612	616	170
25°	550	553	561	568	573	253
35°	475	482	494	508	518	298
45°	389	396	414	441	457	299
55°	289	301	334	370	391	258
65°	185	205	249	288	308	183
75°	85	113	154	163	166	92
85°	21	26	28	27	27	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	637.5	637.5	637.5	637.5	637.5
2.5°	642.3	641.1	639.9	636.2	632.6
5°	632.6	632.6	636.2	637.5	632.6
7.5°	627.7	627.7	627.7	632.6	630.2
10°	622.8	622.8	622.8	626.5	626.5
12.5°	614.3	615.5	616.7	618.0	620.4
15°	603.3	605.8	608.2	611.9	615.5
17.5°	592.4	594.8	599.7	603.3	608.2
20°	580.2	582.6	588.7	592.4	597.2
22.5°	566.8	568.0	575.3	580.2	586.3
25°	549.7	553.4	560.7	568.0	572.9
27.5°	532.6	536.3	544.8	554.6	561.9
30°	515.6	519.2	527.8	540.0	547.3
32.5°	496.1	501.0	510.7	525.3	533.9
35°	475.4	481.5	493.6	508.3	518.0
37.5°	454.6	460.7	474.1	492.4	502.2
40°	433.9	440.0	454.6	474.1	486.3
42.5°	410.8	418.1	433.9	457.1	471.7
45°	388.8	396.1	414.4	441.2	457.1
47.5°	364.4	373.0	393.7	424.2	442.4
50°	340.1	349.8	373.0	407.1	426.6
52.5°	314.5	325.4	353.5	388.8	409.5
55°	288.9	301.1	334.0	370.5	391.3
57.5°	263.3	276.7	313.2	351.0	371.8
60°	237.7	252.3	292.5	331.5	352.3
62.5°	212.1	227.9	270.6	309.6	331.5
65°	185.3	204.8	248.6	287.7	308.4
67.5°	158.5	181.6	226.7	264.5	284.0
70°	132.9	158.5	203.6	238.9	257.2
72.5°	108.5	135.3	179.2	209.6	217.0
75°	85.3	113.4	153.6	163.3	165.8
77.5°	65.8	91.4	121.9	124.3	130.4
80°	47.5	69.5	82.9	90.2	92.6
82.5°	32.9	47.5	54.8	56.1	57.3
85°	20.7	25.6	28.0	26.8	26.8
87.5°	11.0	9.8	8.5	6.1	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)