

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: P260522

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260522
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-L92765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1971.0 lumens
Efficiency: N/A
Efficacy: 92.1 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

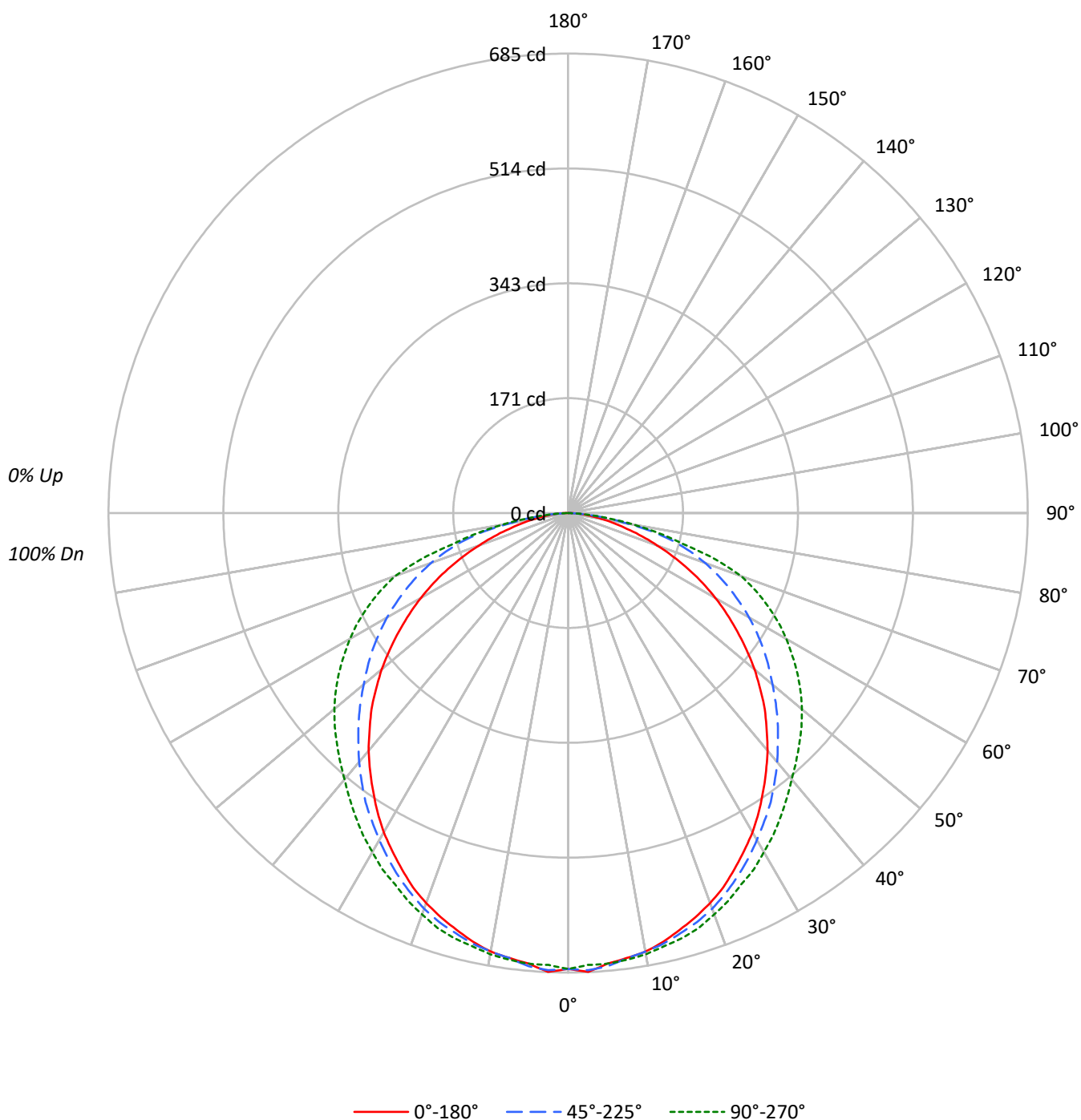
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1829	1829	1829
5°	1821	1832	1821
10°	1814	1814	1825
15°	1792	1806	1828
20°	1771	1797	1823
25°	1740	1775	1813
30°	1708	1748	1813
35°	1665	1729	1814
40°	1625	1702	1821
45°	1577	1681	1854
50°	1518	1665	1904
55°	1445	1670	1957
60°	1364	1678	2021
65°	1258	1688	2093
70°	1114	1707	2157
75°	946	1702	1837
80°	786	1370	1530
85°	682	923	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.3
10°-20°	183.1	9.3
20°-30°	275.5	14.0
30°-40°	330.2	16.8
40°-50°	344.3	17.5
50°-60°	320.6	16.3
60°-70°	260.3	13.2
70°-80°	156.9	8.0
80°-90°	36.0	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°	522.8	26.5
0°-40°	853.0	43.3
0°-60°	1517.9	77.0
0°-90°	1971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	674	674	678	680	674	64
15°	643	646	648	652	656	182
25°	586	590	598	606	611	270
35°	507	513	526	542	552	317
45°	414	422	442	470	487	319
55°	308	321	356	395	417	275
65°	198	218	265	307	329	195
75°	91	121	164	174	177	98
85°	22	27	30	29	29	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	679.5	679.5	679.5	679.5	679.5
2.5°	684.7	683.4	682.1	678.2	674.3
5°	674.3	674.3	678.2	679.5	674.3
7.5°	669.1	669.1	669.1	674.3	671.7
10°	663.9	663.9	663.9	667.8	667.8
12.5°	654.8	656.1	657.4	658.7	661.3
15°	643.1	645.7	648.3	652.2	656.1
17.5°	631.5	634.1	639.2	643.1	648.3
20°	618.5	621.1	627.6	631.5	636.7
22.5°	604.2	605.5	613.3	618.5	625.0
25°	586.0	589.9	597.7	605.5	610.7
27.5°	567.8	571.7	580.8	591.2	599.0
30°	549.6	553.5	562.6	575.6	583.4
32.5°	528.8	534.0	544.4	560.0	569.1
35°	506.7	513.2	526.2	541.8	552.2
37.5°	484.6	491.1	505.4	524.9	535.3
40°	462.5	469.0	484.6	505.4	518.4
42.5°	437.9	445.7	462.5	487.2	502.8
45°	414.5	422.3	441.8	470.3	487.2
47.5°	388.5	397.6	419.7	452.2	471.6
50°	362.5	372.9	397.6	434.0	454.8
52.5°	335.2	346.9	376.8	414.5	436.6
55°	307.9	320.9	356.0	395.0	417.1
57.5°	280.6	294.9	333.9	374.2	396.3
60°	253.4	269.0	311.8	353.4	375.5
62.5°	226.1	243.0	288.4	330.0	353.4
65°	197.5	218.3	265.1	306.6	328.7
67.5°	168.9	193.6	241.7	281.9	302.7
70°	141.6	168.9	217.0	254.7	274.1
72.5°	115.6	144.2	191.0	223.5	231.3
75°	91.0	120.8	163.7	174.1	176.7
77.5°	70.2	97.4	129.9	132.5	139.0
80°	50.7	74.1	88.4	96.1	98.7
82.5°	35.1	50.7	58.5	59.8	61.1
85°	22.1	27.3	29.9	28.6	28.6
87.5°	11.7	10.4	9.1	6.5	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)