

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: P260466

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260466
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-L82765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2134.0 lumens
Efficiency: N/A
Efficacy: 100.6 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

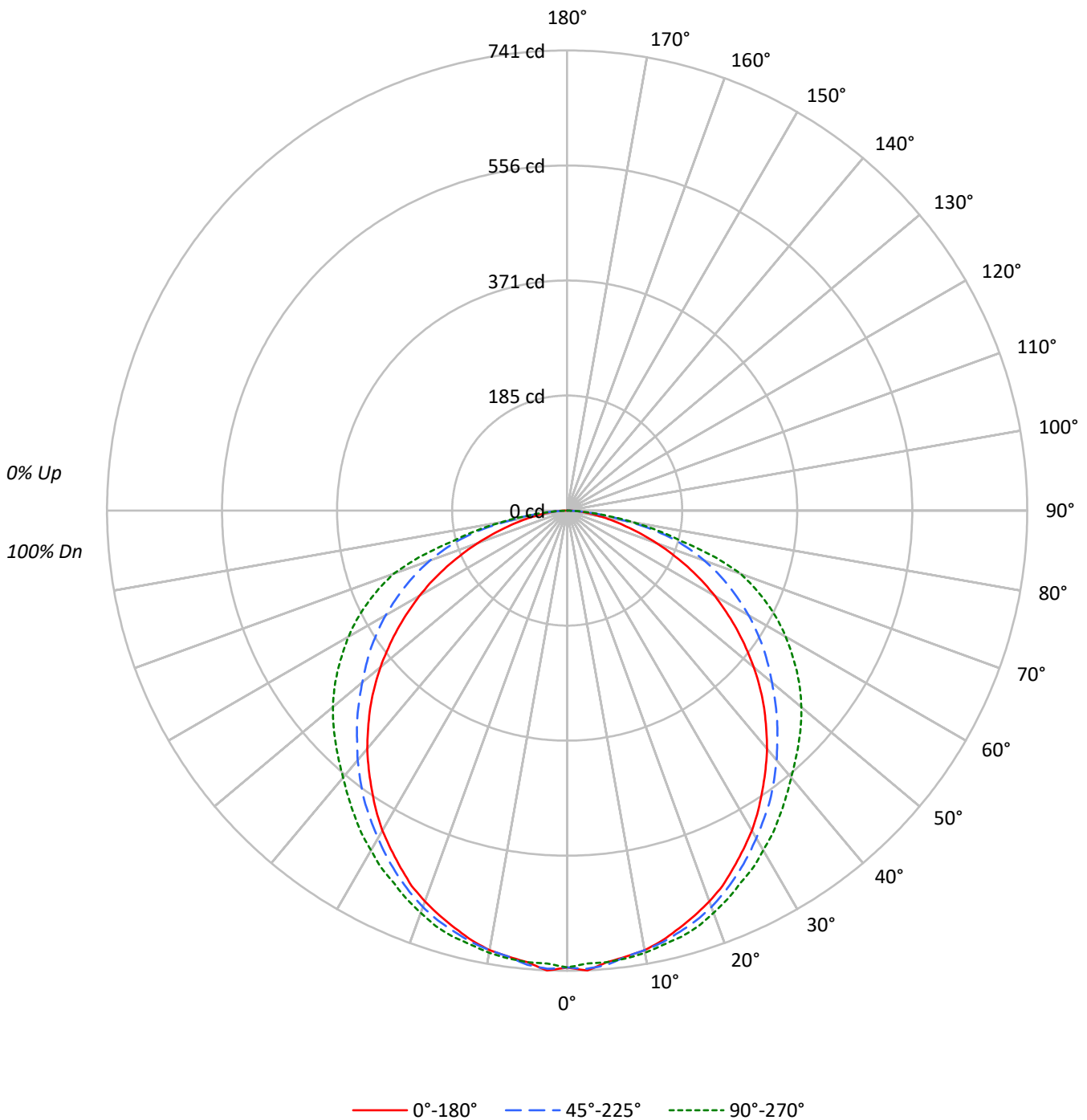
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1980	1980	1980
5°	1972	1984	1972
10°	1964	1964	1976
15°	1940	1956	1979
20°	1918	1946	1974
25°	1884	1921	1963
30°	1849	1893	1963
35°	1802	1872	1964
40°	1759	1843	1972
45°	1708	1820	2007
50°	1643	1802	2061
55°	1564	1808	2119
60°	1476	1817	2188
65°	1361	1827	2266
70°	1206	1848	2335
75°	1024	1842	1989
80°	851	1483	1657
85°	738	1000	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.3
10°-20°	198.3	9.3
20°-30°	298.3	14.0
30°-40°	357.5	16.8
40°-50°	372.8	17.5
50°-60°	347.1	16.3
60°-70°	281.8	13.2
70°-80°	169.8	8.0
80°-90°	38.9	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°	566.1	26.5
0°-40°	923.5	43.3
0°-60°	1643.4	77.0
0°-90°	2134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	730	730	734	736	730	69
15°	696	699	702	706	710	197
25°	634	639	647	656	661	292
35°	549	556	570	587	598	343
45°	449	457	478	509	528	345
55°	333	348	385	428	452	298
65°	214	236	287	332	356	211
75°	98	131	177	188	191	106
85°	24	30	32	31	31	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	735.7	735.7	735.7	735.7	735.7
2.5°	741.3	739.9	738.5	734.3	730.1
5°	730.1	730.1	734.3	735.7	730.1
7.5°	724.5	724.5	724.5	730.1	727.3
10°	718.8	718.8	718.8	723.1	723.1
12.5°	709.0	710.4	711.8	713.2	716.0
15°	696.3	699.1	702.0	706.2	710.4
17.5°	683.7	686.5	692.1	696.3	702.0
20°	669.6	672.4	679.5	683.7	689.3
22.5°	654.1	655.5	664.0	669.6	676.6
25°	634.4	638.7	647.1	655.5	661.2
27.5°	614.7	619.0	628.8	640.1	648.5
30°	595.0	599.3	609.1	623.2	631.6
32.5°	572.5	578.2	589.4	606.3	616.2
35°	548.6	555.7	569.7	586.6	597.9
37.5°	524.7	531.7	547.2	568.3	579.6
40°	500.8	507.8	524.7	547.2	561.3
42.5°	474.1	482.5	500.8	527.5	544.4
45°	448.7	457.2	478.3	509.2	527.5
47.5°	420.6	430.5	454.4	489.5	510.6
50°	392.5	403.7	430.5	469.8	492.4
52.5°	362.9	375.6	408.0	448.7	472.7
55°	333.4	347.5	385.4	427.6	451.6
57.5°	303.9	319.3	361.5	405.1	429.1
60°	274.3	291.2	337.6	382.6	406.5
62.5°	244.8	263.1	312.3	357.3	382.6
65°	213.8	236.3	287.0	332.0	355.9
67.5°	182.9	209.6	261.7	305.3	327.8
70°	153.3	182.9	234.9	275.7	296.8
72.5°	125.2	156.1	206.8	242.0	250.4
75°	98.5	130.8	177.2	188.5	191.3
77.5°	76.0	105.5	140.7	143.5	150.5
80°	54.9	80.2	95.7	104.1	106.9
82.5°	38.0	54.9	63.3	64.7	66.1
85°	23.9	29.5	32.4	30.9	30.9
87.5°	12.7	11.3	9.8	7.0	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)