

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: P260521

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260521
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-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1942.0 lumens
Efficiency: N/A
Efficacy: 91.2 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

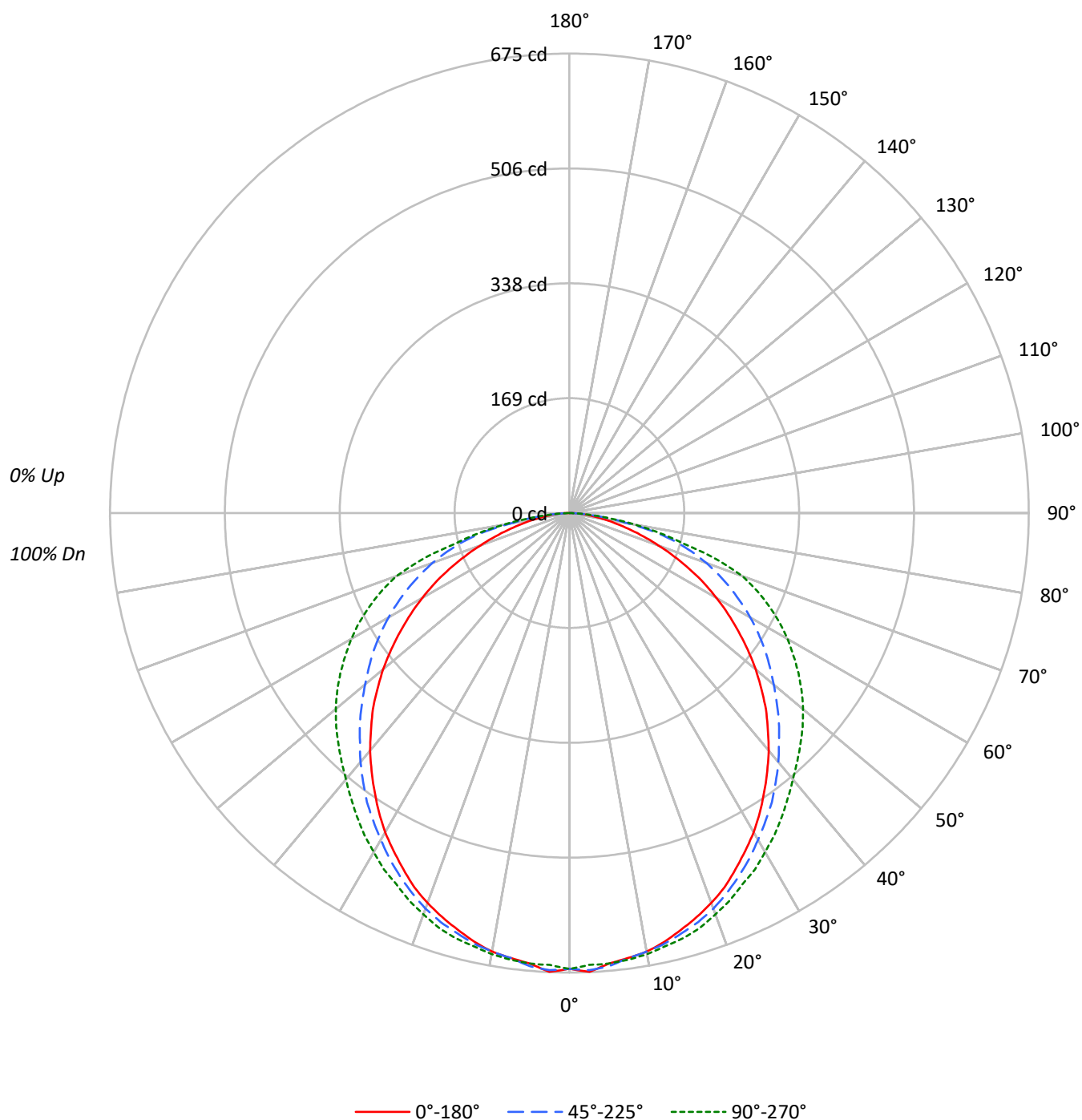
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1802	1802	1802
5°	1795	1805	1795
10°	1788	1788	1798
15°	1765	1780	1801
20°	1745	1771	1796
25°	1714	1749	1787
30°	1683	1722	1786
35°	1640	1703	1787
40°	1601	1677	1794
45°	1554	1657	1827
50°	1495	1640	1876
55°	1423	1646	1928
60°	1343	1653	1991
65°	1239	1663	2062
70°	1098	1682	2125
75°	932	1677	1810
80°	773	1350	1508
85°	673	908	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	3.3
10°-20°	180.4	9.3
20°-30°	271.5	14.0
30°-40°	325.3	16.8
40°-50°	339.3	17.5
50°-60°	315.8	16.3
60°-70°	256.5	13.2
70°-80°	154.5	8.0
80°-90°	35.4	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°	515.2	26.5
0°-40°	840.5	43.3
0°-60°	1495.6	77.0
0°-90°	1942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	664	664	668	670	664	63
15°	634	636	639	643	646	179
25°	577	581	589	597	602	266
35°	499	506	518	534	544	312
45°	408	416	435	463	480	314
55°	303	316	351	389	411	271
65°	195	215	261	302	324	192
75°	90	119	161	172	174	97
85°	22	27	29	28	28	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	669.5	669.5	669.5	669.5	669.5
2.5°	674.6	673.4	672.1	668.2	664.4
5°	664.4	664.4	668.2	669.5	664.4
7.5°	659.3	659.3	659.3	664.4	661.8
10°	654.2	654.2	654.2	658.0	658.0
12.5°	645.2	646.5	647.8	649.0	651.6
15°	633.7	636.2	638.8	642.6	646.5
17.5°	622.2	624.7	629.8	633.7	638.8
20°	609.4	611.9	618.3	622.2	627.3
22.5°	595.3	596.6	604.2	609.4	615.8
25°	577.4	581.2	588.9	596.6	601.7
27.5°	559.4	563.3	572.2	582.5	590.2
30°	541.5	545.4	554.3	567.1	574.8
32.5°	521.0	526.1	536.4	551.8	560.7
35°	499.3	505.7	518.5	533.8	544.1
37.5°	477.5	483.9	498.0	517.2	527.4
40°	455.7	462.1	477.5	498.0	510.8
42.5°	431.4	439.1	455.7	480.1	495.4
45°	408.4	416.1	435.3	463.4	480.1
47.5°	382.8	391.7	413.5	445.5	464.7
50°	357.2	367.4	391.7	427.6	448.1
52.5°	330.3	341.8	371.2	408.4	430.1
55°	303.4	316.2	350.8	389.2	410.9
57.5°	276.5	290.6	329.0	368.7	390.5
60°	249.6	265.0	307.2	348.2	370.0
62.5°	222.7	239.4	284.2	325.2	348.2
65°	194.6	215.1	261.2	302.1	323.9
67.5°	166.4	190.7	238.1	277.8	298.3
70°	139.5	166.4	213.8	250.9	270.1
72.5°	113.9	142.1	188.2	220.2	227.9
75°	89.6	119.1	161.3	171.5	174.1
77.5°	69.1	96.0	128.0	130.6	137.0
80°	49.9	73.0	87.1	94.7	97.3
82.5°	34.6	49.9	57.6	58.9	60.2
85°	21.8	26.9	29.4	28.2	28.2
87.5°	11.5	10.2	9.0	6.4	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)