

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: P230841

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230841
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-LD5-20-RDP-UNV-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1183.0 lumens
Efficiency: N/A
Efficacy: 72.1 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

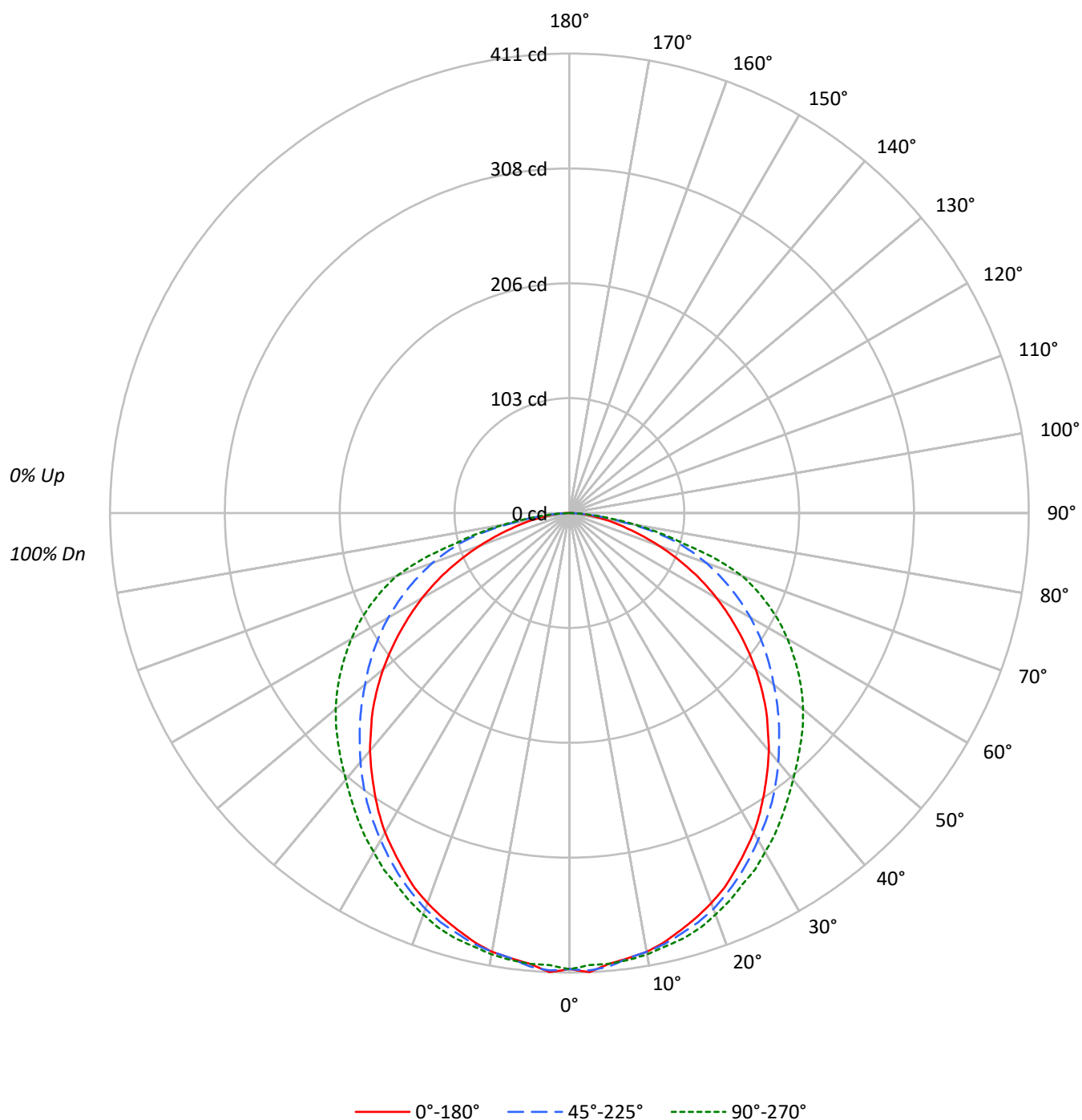
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	1098	1098	1098
5°	1093	1100	1093
10°	1089	1089	1095
15°	1075	1084	1097
20°	1063	1079	1094
25°	1044	1065	1088
30°	1025	1049	1088
35°	999	1037	1089
40°	975	1022	1093
45°	947	1009	1113
50°	911	999	1142
55°	867	1003	1174
60°	819	1008	1213
65°	755	1013	1256
70°	669	1024	1294
75°	568	1022	1103
80°	471	821	919
85°	411	553	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	3.3
10°-20°	109.9	9.3
20°-30°	165.4	14.0
30°-40°	198.2	16.8
40°-50°	206.7	17.5
50°-60°	192.4	16.3
60°-70°	156.2	13.2
70°-80°	94.1	8.0
80°-90°	21.6	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°	313.8	26.5
0°-40°	512.0	43.3
0°-60°	911.0	77.0
0°-90°	1183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	405	405	407	408	405	38
15°	386	388	389	392	394	109
25°	352	354	359	363	366	162
35°	304	308	316	325	331	190
45°	249	253	265	282	292	192
55°	185	193	214	237	250	165
65°	118	131	159	184	197	117
75°	55	72	98	104	106	59
85°	13	16	18	17	17	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	407.9	407.9	407.9	407.9	407.9
2.5°	411.0	410.2	409.4	407.1	404.7
5°	404.7	404.7	407.1	407.9	404.7
7.5°	401.6	401.6	401.6	404.7	403.2
10°	398.5	398.5	398.5	400.8	400.8
12.5°	393.0	393.8	394.6	395.4	396.9
15°	386.0	387.6	389.1	391.5	393.8
17.5°	379.0	380.6	383.7	386.0	389.1
20°	371.2	372.8	376.7	379.0	382.1
22.5°	362.6	363.4	368.1	371.2	375.1
25°	351.7	354.0	358.7	363.4	366.5
27.5°	340.8	343.1	348.6	354.8	359.5
30°	329.9	332.2	337.7	345.5	350.1
32.5°	317.4	320.5	326.8	336.1	341.6
35°	304.1	308.0	315.8	325.2	331.4
37.5°	290.9	294.8	303.4	315.1	321.3
40°	277.6	281.5	290.9	303.4	311.2
42.5°	262.8	267.5	277.6	292.4	301.8
45°	248.8	253.4	265.1	282.3	292.4
47.5°	233.2	238.6	251.9	271.4	283.1
50°	217.6	223.8	238.6	260.5	272.9
52.5°	201.2	208.2	226.2	248.8	262.0
55°	184.8	192.6	213.7	237.1	250.3
57.5°	168.4	177.0	200.4	224.6	237.8
60°	152.1	161.4	187.2	212.1	225.4
62.5°	135.7	145.8	173.1	198.1	212.1
65°	118.5	131.0	159.1	184.0	197.3
67.5°	101.4	116.2	145.0	169.2	181.7
70°	85.0	101.4	130.2	152.8	164.5
72.5°	69.4	86.6	114.6	134.1	138.8
75°	54.6	72.5	98.3	104.5	106.1
77.5°	42.1	58.5	78.0	79.5	83.4
80°	30.4	44.5	53.0	57.7	59.3
82.5°	21.1	30.4	35.1	35.9	36.7
85°	13.3	16.4	17.9	17.2	17.2
87.5°	7.0	6.2	5.5	3.9	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)