

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: P230856

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230856
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-LD5-39-RDP-UNV-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2145.0 lumens
Efficiency: N/A
Efficacy: 58.9 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

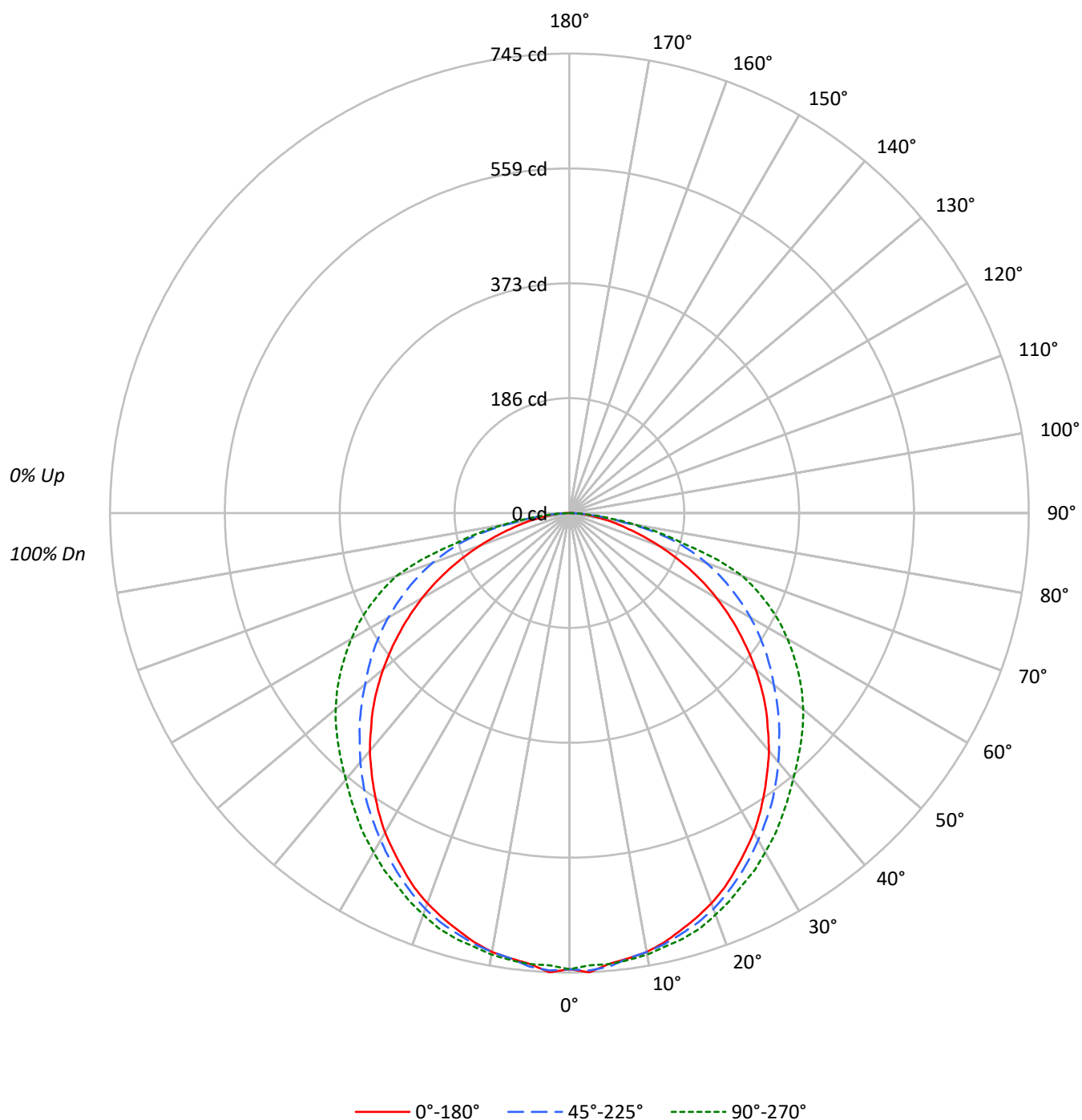
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1990	1990	1990
5°	1982	1994	1982
10°	1974	1974	1986
15°	1950	1966	1989
20°	1928	1956	1984
25°	1893	1931	1973
30°	1858	1903	1973
35°	1812	1881	1974
40°	1768	1853	1982
45°	1717	1830	2018
50°	1652	1811	2072
55°	1572	1818	2130
60°	1484	1827	2199
65°	1368	1837	2278
70°	1212	1858	2348
75°	1029	1853	1999
80°	854	1491	1666
85°	741	1003	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.3
10°-20°	199.3	9.3
20°-30°	299.8	14.0
30°-40°	359.3	16.8
40°-50°	374.7	17.5
50°-60°	348.9	16.3
60°-70°	283.3	13.2
70°-80°	170.7	8.0
80°-90°	39.1	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°	569.0	26.5
0°-40°	928.3	43.3
0°-60°	1651.9	77.0
0°-90°	2145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	734	734	738	740	734	70
15°	700	703	706	710	714	198
25°	638	642	650	659	665	294
35°	552	558	573	590	601	345
45°	451	460	481	512	530	347
55°	335	349	387	430	454	300
65°	215	238	288	334	358	213
75°	99	132	178	190	192	107
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°	739.5	739.5	739.5	739.5	739.5
2.5°	745.2	743.8	742.3	738.1	733.9
5°	733.9	733.9	738.1	739.5	733.9
7.5°	728.2	728.2	728.2	733.9	731.0
10°	722.5	722.5	722.5	726.8	726.8
12.5°	712.6	714.1	715.5	716.9	719.7
15°	699.9	702.8	705.6	709.8	714.1
17.5°	687.2	690.0	695.7	699.9	705.6
20°	673.1	675.9	683.0	687.2	692.9
22.5°	657.5	658.9	667.4	673.1	680.1
25°	637.7	642.0	650.4	658.9	664.6
27.5°	617.9	622.2	632.1	643.4	651.8
30°	598.1	602.4	612.3	626.4	634.9
32.5°	575.5	581.1	592.5	609.4	619.3
35°	551.5	558.5	572.7	589.6	600.9
37.5°	527.4	534.5	550.0	571.3	582.6
40°	503.4	510.4	527.4	550.0	564.2
42.5°	476.5	485.0	503.4	530.2	547.2
45°	451.1	459.5	480.8	511.9	530.2
47.5°	422.8	432.7	456.7	492.1	513.3
50°	394.5	405.8	432.7	472.3	494.9
52.5°	364.8	377.5	410.1	451.1	475.1
55°	335.1	349.3	387.4	429.9	453.9
57.5°	305.4	321.0	363.4	407.2	431.3
60°	275.7	292.7	339.4	384.6	408.6
62.5°	246.0	264.4	313.9	359.2	384.6
65°	214.9	237.5	288.5	333.7	357.7
67.5°	183.8	210.7	263.0	306.8	329.5
70°	154.1	183.8	236.1	277.1	298.4
72.5°	125.8	157.0	207.9	243.2	251.7
75°	99.0	131.5	178.2	189.5	192.3
77.5°	76.4	106.0	141.4	144.2	151.3
80°	55.1	80.6	96.2	104.6	107.5
82.5°	38.2	55.1	63.6	65.0	66.5
85°	24.0	29.7	32.5	31.1	31.1
87.5°	12.7	11.3	9.9	7.1	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)