

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: P230853

Luminaire Tested: **22CZ-LD5-34-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230853
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-LD5-34-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: 1983.0 lumens
Efficiency: N/A
Efficacy: 67.4 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

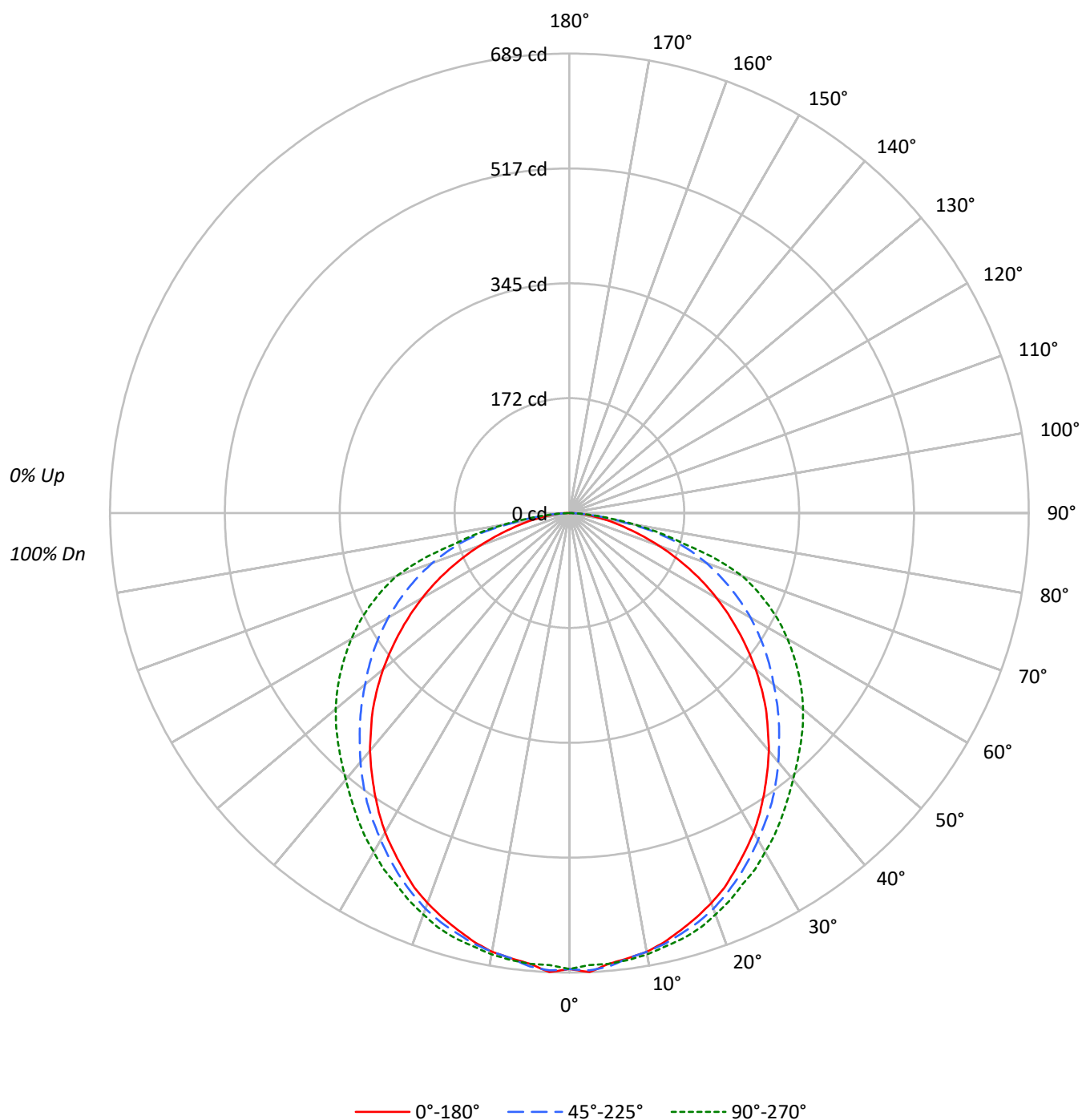
Input Watts (W): 29.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	1840	1840	1840
5°	1833	1843	1833
10°	1825	1825	1836
15°	1803	1817	1839
20°	1782	1808	1834
25°	1750	1785	1824
30°	1718	1759	1824
35°	1675	1739	1825
40°	1635	1713	1832
45°	1587	1691	1866
50°	1527	1675	1915
55°	1453	1681	1969
60°	1372	1688	2033
65°	1265	1698	2106
70°	1121	1718	2170
75°	951	1712	1849
80°	790	1378	1539
85°	685	929	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	3.3
10°-20°	184.2	9.3
20°-30°	277.2	14.0
30°-40°	332.2	16.8
40°-50°	346.4	17.5
50°-60°	322.5	16.3
60°-70°	261.9	13.2
70°-80°	157.8	8.0
80°-90°	36.2	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°	526.0	26.5
0°-40°	858.2	43.3
0°-60°	1527.1	77.0
0°-90°	1983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	678	678	682	684	678	64
15°	647	650	652	656	660	183
25°	590	594	601	609	614	272
35°	510	516	529	545	556	319
45°	417	425	444	473	490	321
55°	310	323	358	397	420	277
65°	199	220	267	308	331	197
75°	92	122	165	175	178	99
85°	22	28	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°	683.7	683.7	683.7	683.7	683.7
2.5°	688.9	687.6	686.3	682.4	678.4
5°	678.4	678.4	682.4	683.7	678.4
7.5°	673.2	673.2	673.2	678.4	675.8
10°	668.0	668.0	668.0	671.9	671.9
12.5°	658.8	660.1	661.4	662.7	665.4
15°	647.1	649.7	652.3	656.2	660.1
17.5°	635.3	637.9	643.1	647.1	652.3
20°	622.2	624.8	631.4	635.3	640.5
22.5°	607.8	609.2	617.0	622.2	628.8
25°	589.5	593.5	601.3	609.2	614.4
27.5°	571.2	575.2	584.3	594.8	602.6
30°	552.9	556.9	566.0	579.1	586.9
32.5°	532.0	537.3	547.7	563.4	572.6
35°	509.8	516.3	529.4	545.1	555.6
37.5°	487.6	494.1	508.5	528.1	538.6
40°	465.4	471.9	487.6	508.5	521.6
42.5°	440.5	448.4	465.4	490.2	505.9
45°	417.0	424.8	444.4	473.2	490.2
47.5°	390.9	400.0	422.2	454.9	474.5
50°	364.7	375.2	400.0	436.6	457.5
52.5°	337.3	349.0	379.1	417.0	439.2
55°	309.8	322.9	358.2	397.4	419.6
57.5°	282.4	296.7	335.9	376.5	398.7
60°	254.9	270.6	313.7	355.6	377.8
62.5°	227.5	244.4	290.2	332.0	355.6
65°	198.7	219.6	266.7	308.5	330.7
67.5°	169.9	194.8	243.1	283.7	304.6
70°	142.5	169.9	218.3	256.2	275.8
72.5°	116.3	145.1	192.2	224.8	232.7
75°	91.5	121.6	164.7	175.2	177.8
77.5°	70.6	98.0	130.7	133.3	139.9
80°	51.0	74.5	88.9	96.7	99.3
82.5°	35.3	51.0	58.8	60.1	61.4
85°	22.2	27.5	30.1	28.8	28.8
87.5°	11.8	10.5	9.2	6.5	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)