

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: P230889

Luminaire Tested: **14CZ-LD5-25-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-UNV-L935-CD1-U
Description: CRUZE 1x4 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2156.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

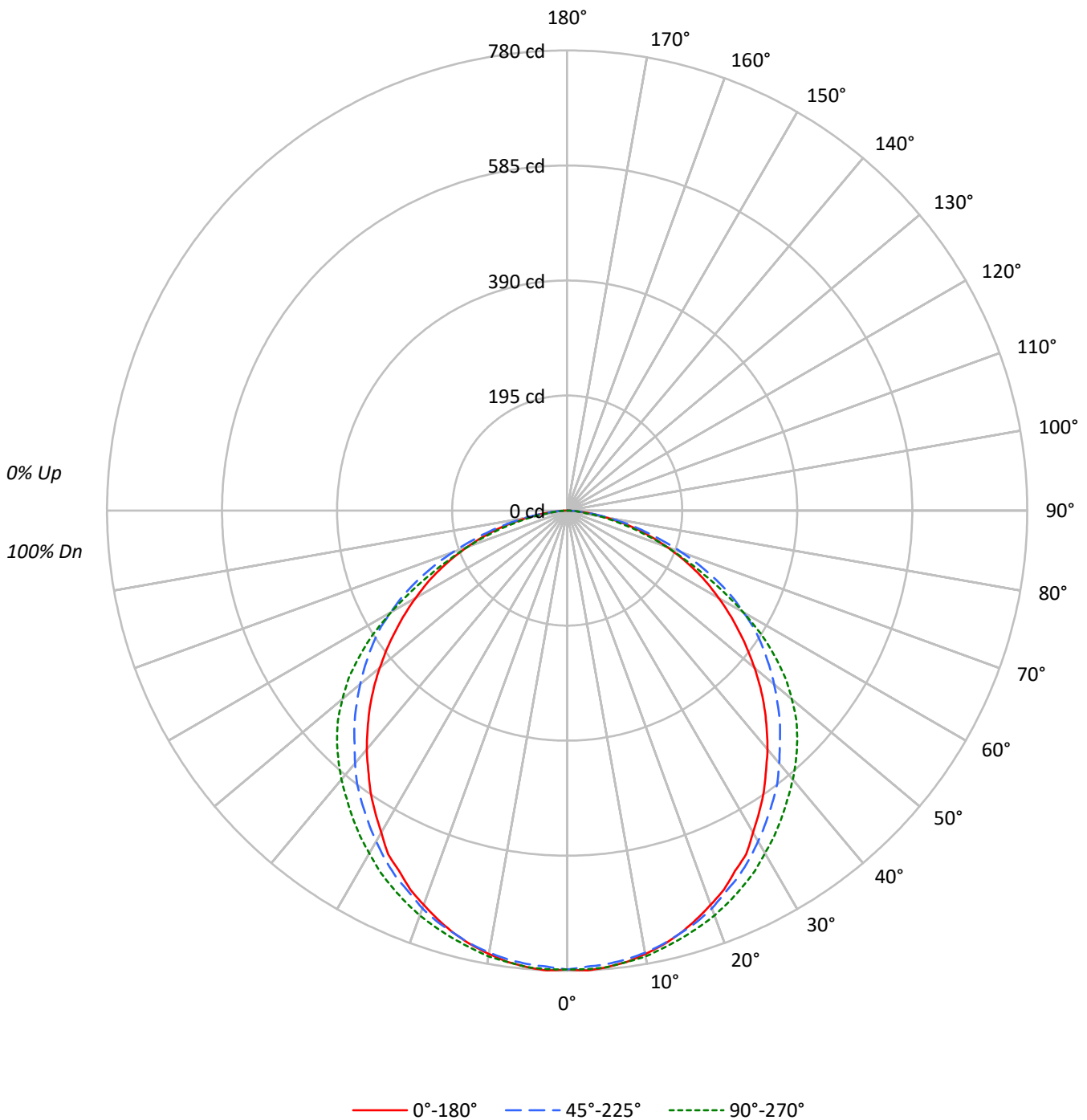
Input Watts (W): 20.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2094	2094	2094
5°	2099	2085	2099
10°	2085	2079	2097
15°	2067	2067	2091
20°	2036	2055	2091
25°	2001	2036	2089
30°	1959	2011	2084
35°	1910	1990	2084
40°	1856	1964	2091
45°	1800	1942	2099
50°	1735	1918	2082
55°	1666	1900	2015
60°	1596	1859	1854
65°	1523	1780	1624
70°	1413	1622	1405
75°	1282	1415	1160
80°	1021	1120	857
85°	722	624	491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	3.4
10°-20°	210.3	9.8
20°-30°	317.1	14.7
30°-40°	380.1	17.6
40°-50°	394.4	18.3
50°-60°	355.8	16.5
60°-70°	259.5	12.0
70°-80°	136.2	6.3
80°-90°	29.0	1.3
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°	601.0	27.9
0°-40°	981.1	45.5
0°-60°	1731.3	80.3
0°-90°	2156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	777	775	772	777	777	74
15°	742	742	742	750	750	209
25°	674	677	686	700	704	311
35°	581	588	606	628	634	363
45°	473	483	510	541	552	365
55°	355	368	405	432	429	318
65°	239	253	280	269	255	236
75°	123	140	136	118	112	129
85°	23	29	20	17	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.0	778.0	778.0	778.0	778.0
2.5°	780.2	778.0	773.8	778.0	778.0
5°	777.0	774.9	771.7	777.0	777.0
7.5°	771.7	769.5	767.4	772.7	771.7
10°	763.2	762.1	761.0	767.4	767.4
12.5°	753.6	753.6	752.5	760.0	758.9
15°	741.9	741.9	741.9	750.4	750.4
17.5°	727.0	729.1	731.3	740.8	740.8
20°	711.1	713.2	717.5	729.1	730.2
22.5°	695.1	696.2	700.4	714.3	717.5
25°	673.9	677.1	685.6	700.4	703.6
27.5°	656.9	657.9	667.5	684.5	688.8
30°	630.3	637.7	647.3	666.4	670.7
32.5°	605.9	612.2	627.1	647.3	653.7
35°	581.4	587.8	605.9	628.2	634.5
37.5°	553.8	563.3	584.6	606.9	614.4
40°	528.3	536.8	559.1	586.7	595.2
42.5°	500.6	509.1	533.6	564.4	574.0
45°	473.0	482.6	510.2	541.0	551.6
47.5°	444.3	454.9	483.6	517.6	527.2
50°	414.5	426.2	458.1	493.2	497.4
52.5°	384.8	397.5	431.5	462.4	466.6
55°	355.0	367.8	405.0	431.5	429.4
57.5°	326.3	340.1	378.4	392.2	390.1
60°	296.5	311.4	345.4	351.8	344.4
62.5°	268.9	282.7	314.6	309.3	299.7
65°	239.2	253.0	279.5	268.9	255.1
67.5°	209.4	226.4	243.4	225.3	214.7
70°	179.6	198.8	206.2	188.1	178.6
72.5°	150.9	171.1	169.0	150.9	144.6
75°	123.3	140.3	136.1	118.0	111.6
77.5°	93.5	112.7	103.1	88.2	82.9
80°	65.9	82.9	72.3	59.5	55.3
82.5°	43.6	55.3	44.6	35.1	31.9
85°	23.4	28.7	20.2	17.0	15.9
87.5°	9.6	8.5	7.4	7.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)