

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: P230888

Luminaire Tested: **14CZ-LD5-25-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230888
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-L930-CD1-U
Description: CRUZE 1x4 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2074.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

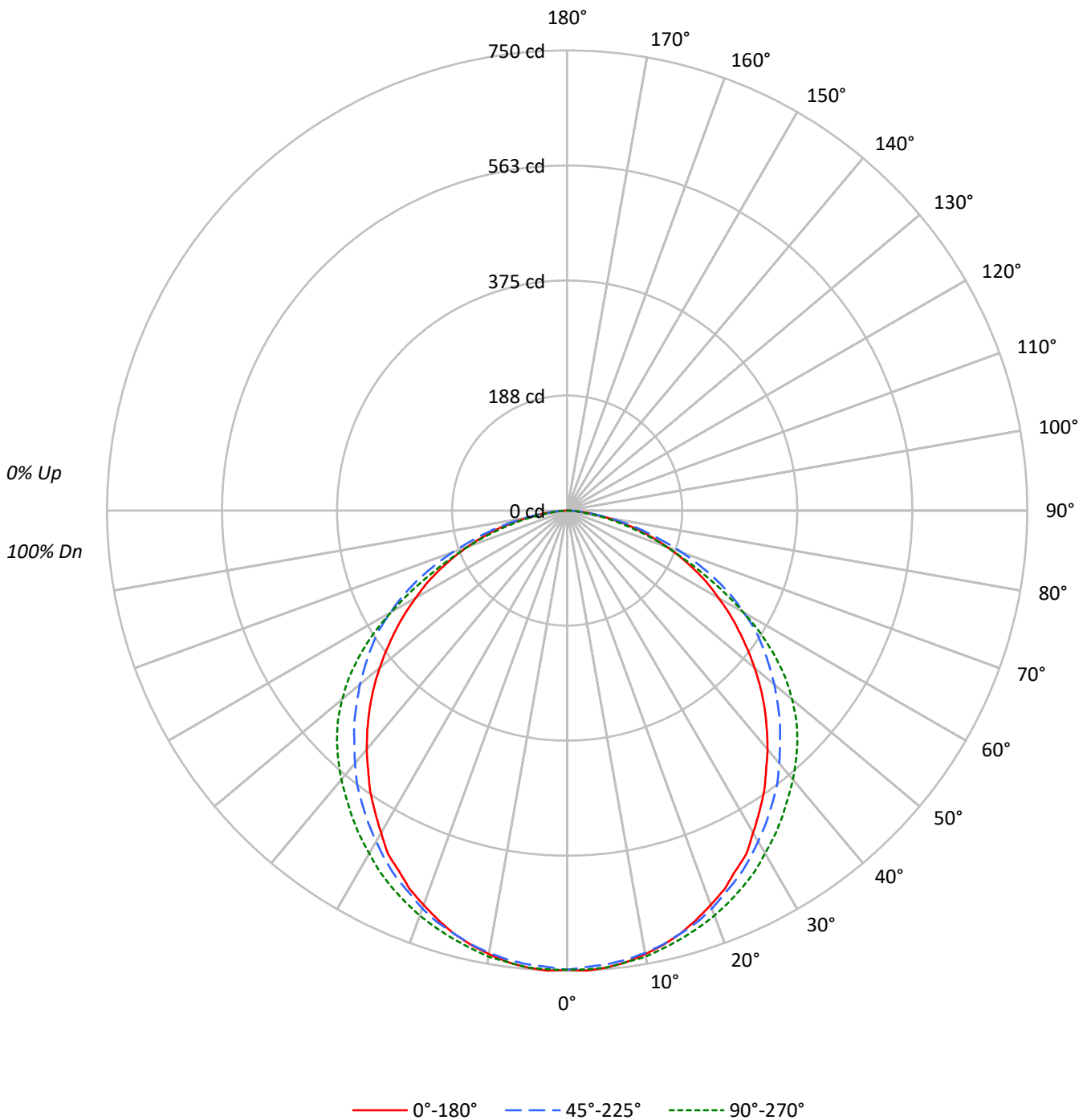
Input Watts (W): 20.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2014	2014	2014
5°	2019	2005	2019
10°	2006	2000	2017
15°	1988	1988	2011
20°	1959	1977	2011
25°	1925	1958	2010
30°	1884	1935	2005
35°	1837	1915	2005
40°	1785	1889	2011
45°	1732	1868	2020
50°	1670	1845	2003
55°	1602	1828	1938
60°	1535	1788	1783
65°	1465	1712	1563
70°	1360	1561	1352
75°	1233	1361	1117
80°	982	1077	824
85°	695	599	472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.4
10°-20°	202.3	9.8
20°-30°	305.0	14.7
30°-40°	365.6	17.6
40°-50°	379.4	18.3
50°-60°	342.2	16.5
60°-70°	249.6	12.0
70°-80°	131.0	6.3
80°-90°	27.9	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°	578.2	27.9
0°-40°	943.8	45.5
0°-60°	1665.4	80.3
0°-90°	2074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	747	745	742	747	747	71
15°	714	714	714	722	722	201
25°	648	651	660	674	677	299
35°	559	565	583	604	610	349
45°	455	464	491	520	531	351
55°	342	354	390	415	413	306
65°	230	243	269	259	245	227
75°	119	135	131	114	107	124
85°	22	28	19	16	15	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.4	748.4	748.4	748.4	748.4
2.5°	750.5	748.4	744.4	748.4	748.4
5°	747.4	745.4	742.3	747.4	747.4
7.5°	742.3	740.3	738.2	743.3	742.3
10°	734.1	733.1	732.1	738.2	738.2
12.5°	724.9	724.9	723.9	731.1	730.0
15°	713.7	713.7	713.7	721.9	721.9
17.5°	699.4	701.4	703.5	712.7	712.7
20°	684.0	686.1	690.2	701.4	702.4
22.5°	668.7	669.7	673.8	687.1	690.2
25°	648.2	651.3	659.5	673.8	676.9
27.5°	631.9	632.9	642.1	658.5	662.6
30°	606.3	613.5	622.7	641.1	645.2
32.5°	582.8	588.9	603.3	622.7	628.8
35°	559.3	565.4	582.8	604.3	610.4
37.5°	532.7	541.9	562.4	583.8	591.0
40°	508.2	516.3	537.8	564.4	572.6
42.5°	481.6	489.8	513.3	542.9	552.1
45°	455.0	464.2	490.8	520.4	530.7
47.5°	427.4	437.6	465.2	497.9	507.1
50°	398.8	410.0	440.7	474.4	478.5
52.5°	370.1	382.4	415.1	444.8	448.9
55°	341.5	353.8	389.6	415.1	413.1
57.5°	313.9	327.2	364.0	377.3	375.2
60°	285.3	299.6	332.3	338.4	331.3
62.5°	258.7	272.0	302.7	297.5	288.3
65°	230.1	243.3	268.9	258.7	245.4
67.5°	201.4	217.8	234.1	216.8	206.5
70°	172.8	191.2	198.4	181.0	171.8
72.5°	145.2	164.6	162.6	145.2	139.1
75°	118.6	135.0	130.9	113.5	107.4
77.5°	90.0	108.4	99.2	84.9	79.8
80°	63.4	79.8	69.5	57.3	53.2
82.5°	41.9	53.2	42.9	33.7	30.7
85°	22.5	27.6	19.4	16.4	15.3
87.5°	9.2	8.2	7.2	7.2	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)