

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: P#

Luminaire Tested: **14CZ-LD5-20-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-UNV-L835-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

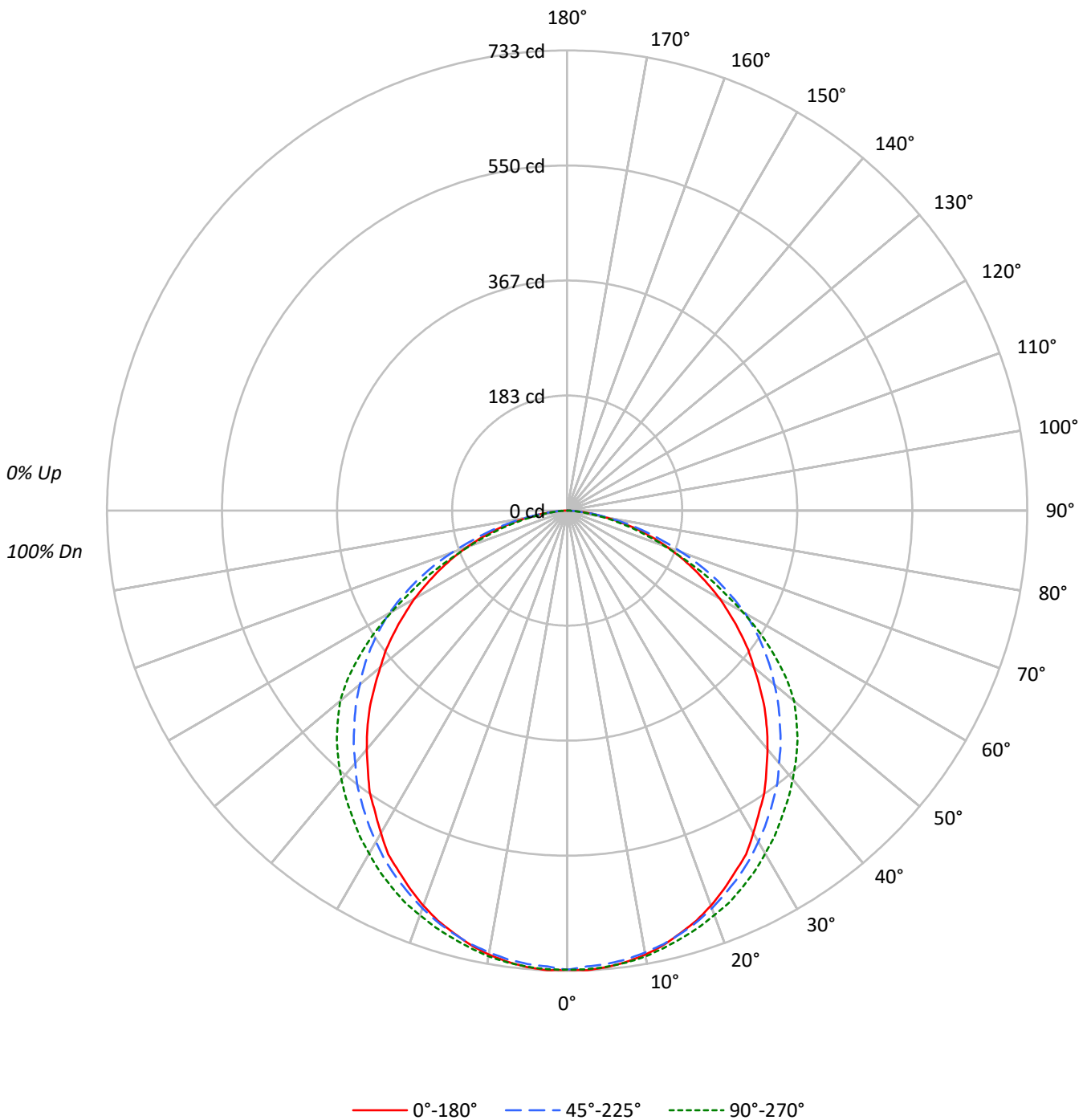
Lumens per Lamp: N/A
Luminaire Lumens: 2028.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 16.3
Input Voltage (V): NR
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°	1968	1968	1968
5°	1967	1943	1953
10°	1954	1923	1936
15°	1929	1899	1913
20°	1901	1870	1895
25°	1862	1838	1877
30°	1817	1801	1853
35°	1769	1763	1830
40°	1709	1718	1812
45°	1651	1675	1795
50°	1579	1633	1765
55°	1518	1590	1656
60°	1449	1530	1479
65°	1357	1412	1271
70°	1249	1228	1024
75°	1102	1001	797
80°	850	696	532
85°	536	298	203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	3.4
10°-20°	197.7	9.7
20°-30°	298.2	14.7
30°-40°	357.6	17.6
40°-50°	371.1	18.3
50°-60°	335.0	16.5
60°-70°	244.0	12.0
70°-80°	128.0	6.3
80°-90°	27.4	1.4
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°	565.1	27.9
0°-40°	922.6	45.5
0°-60°	1628.7	80.3
0°-90°	2028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	730	728	725	730	729	69
15°	697	697	698	706	705	197
25°	634	638	644	659	662	292
35°	548	553	570	591	596	342
45°	445	454	479	509	519	342
55°	335	347	382	404	404	300
65°	224	238	264	252	242	222
75°	116	132	128	111	105	122
85°	22	27	19	15	14	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	731.3	731.3	731.3	731.3	731.3
2.5°	732.8	730.8	726.9	731.8	731.3
5°	729.9	728.4	725.0	729.9	729.4
7.5°	725.0	724.0	721.1	726.5	726.0
10°	718.2	716.8	714.8	720.6	721.1
12.5°	709.0	708.5	707.5	713.8	713.4
15°	696.9	696.9	697.8	705.6	705.1
17.5°	684.8	684.8	687.2	695.9	696.4
20°	669.7	670.7	674.1	684.8	685.7
22.5°	652.7	653.7	659.5	673.1	675.5
25°	634.3	637.7	644.5	658.6	661.5
27.5°	617.3	617.8	628.0	643.5	647.4
30°	593.1	599.9	609.1	627.0	630.9
32.5°	569.3	576.1	590.2	609.6	614.9
35°	548.0	553.3	569.8	591.2	596.0
37.5°	521.3	530.1	549.5	571.8	578.5
40°	496.6	504.3	525.2	550.4	559.1
42.5°	470.9	479.6	503.4	530.5	539.3
45°	444.7	454.4	479.1	509.2	518.9
47.5°	416.1	428.2	456.3	486.9	495.6
50°	388.4	401.1	431.1	463.1	471.9
52.5°	363.2	374.4	407.4	436.9	440.8
55°	335.1	346.7	381.7	404.4	403.5
57.5°	307.0	320.1	355.0	369.0	365.2
60°	280.8	292.9	327.8	330.7	322.5
62.5°	251.7	265.8	295.3	291.0	280.8
65°	224.5	238.1	263.8	251.7	242.5
67.5°	196.9	211.4	229.9	211.9	201.3
70°	169.7	187.2	194.0	174.6	165.9
72.5°	142.1	160.5	160.0	141.6	134.3
75°	115.9	132.4	128.0	110.6	105.2
77.5°	88.3	104.7	96.5	83.4	78.6
80°	62.6	78.1	67.4	57.2	53.8
82.5°	42.7	51.9	42.2	33.5	32.0
85°	22.3	26.7	19.4	15.0	14.1
87.5°	8.2	7.8	6.8	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)