

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-LD5-29-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-LD5-29-UNV-L835-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

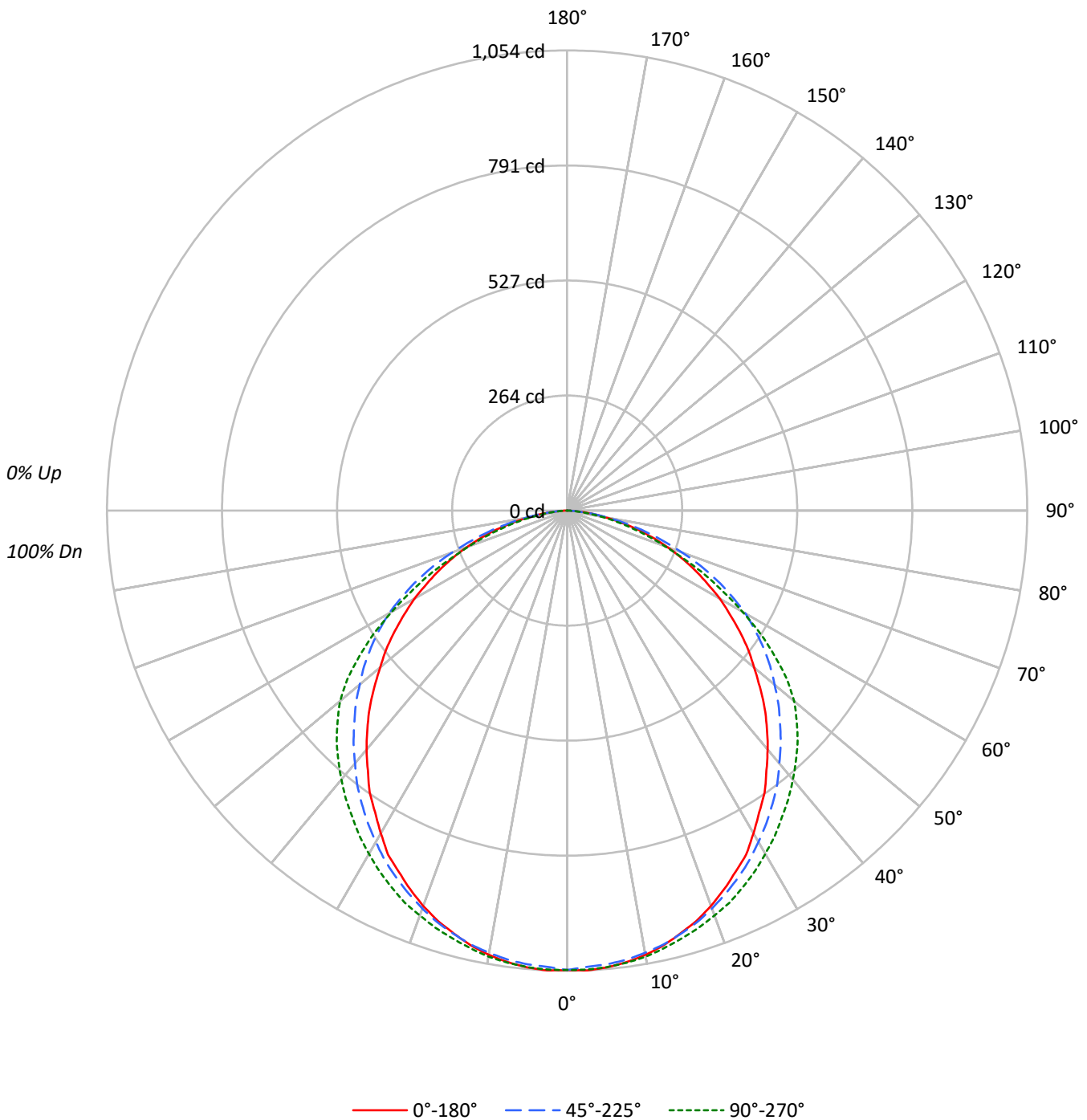
Lumens per Lamp: N/A
Luminaire Lumens: 2918.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 24.53
Input Voltage (V): NR
Input Current (A_{in}): 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°	2831	2831	2831
5°	2831	2796	2810
10°	2811	2767	2786
15°	2775	2733	2753
20°	2735	2691	2726
25°	2679	2644	2700
30°	2614	2591	2667
35°	2546	2536	2633
40°	2458	2471	2607
45°	2376	2411	2583
50°	2272	2349	2540
55°	2184	2287	2383
60°	2084	2202	2129
65°	1953	2032	1829
70°	1798	1767	1473
75°	1586	1440	1146
80°	1222	1001	766
85°	771	429	291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	3.4
10°-20°	284.4	9.7
20°-30°	429.1	14.7
30°-40°	514.5	17.6
40°-50°	533.9	18.3
50°-60°	482.0	16.5
60°-70°	351.0	12.0
70°-80°	184.1	6.3
80°-90°	39.4	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°	813.0	27.9
0°-40°	1327.5	45.5
0°-60°	2343.4	80.3
0°-90°	2918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1050	1048	1043	1050	1050	100
15°	1003	1003	1004	1015	1015	283
25°	913	918	927	948	952	421
35°	788	796	820	851	858	492
45°	640	654	689	733	747	493
55°	482	499	549	582	580	431
65°	323	343	380	362	349	320
75°	167	190	184	159	151	175
85°	32	38	28	22	20	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1054.3	1051.5	1046.0	1052.9	1052.2
5°	1050.2	1048.1	1043.2	1050.2	1049.5
7.5°	1043.2	1041.8	1037.6	1045.3	1044.6
10°	1033.4	1031.3	1028.5	1036.9	1037.6
12.5°	1020.1	1019.4	1018.1	1027.1	1026.4
15°	1002.7	1002.7	1004.1	1015.3	1014.6
17.5°	985.3	985.3	988.7	1001.3	1002.0
20°	963.6	965.0	969.9	985.3	986.7
22.5°	939.2	940.6	949.0	968.5	972.0
25°	912.7	917.6	927.3	947.6	951.8
27.5°	888.3	889.0	903.6	925.9	931.5
30°	853.4	863.1	876.4	902.2	907.8
32.5°	819.2	829.0	849.2	877.1	884.8
35°	788.5	796.2	819.9	850.6	857.6
37.5°	750.1	762.7	790.6	822.7	832.4
40°	714.5	725.7	755.7	792.0	804.5
42.5°	677.5	690.1	724.3	763.4	775.9
45°	639.9	653.8	689.4	732.7	746.6
47.5°	598.7	616.1	656.6	700.6	713.1
50°	558.9	577.1	620.3	666.4	678.9
52.5°	522.6	538.7	586.1	628.7	634.3
55°	482.2	498.9	549.1	581.9	580.5
57.5°	441.7	460.5	510.8	531.0	525.4
60°	404.0	421.5	471.7	475.9	464.0
62.5°	362.1	382.4	424.9	418.7	404.0
65°	323.1	342.6	379.6	362.1	348.9
67.5°	283.3	304.2	330.7	304.9	289.6
70°	244.2	269.3	279.1	251.2	238.6
72.5°	204.4	231.0	230.3	203.8	193.3
75°	166.8	190.5	184.2	159.1	151.4
77.5°	127.0	150.7	138.9	120.0	113.0
80°	90.0	112.3	97.0	82.3	77.5
82.5°	61.4	74.7	60.7	48.1	46.1
85°	32.1	38.4	27.9	21.6	20.2
87.5°	11.9	11.2	9.8	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)