

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-LD5-25-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-LD5-25-UNV-L835-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

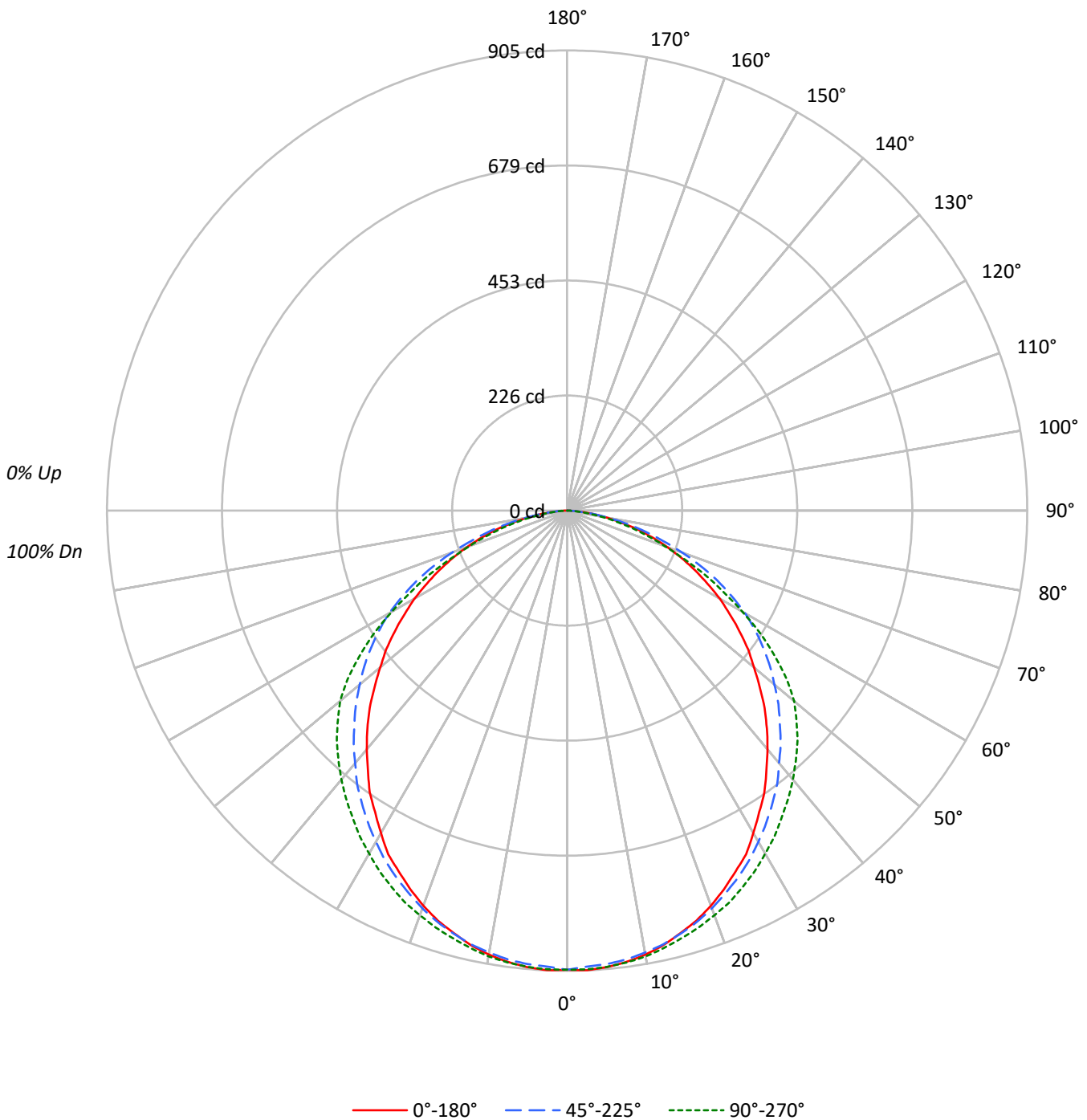
Lumens per Lamp: N/A
Luminaire Lumens: 2504.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 20.46
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	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°	2430	2430	2430
5°	2429	2400	2412
10°	2413	2375	2391
15°	2381	2345	2362
20°	2347	2309	2340
25°	2299	2269	2317
30°	2243	2224	2288
35°	2184	2177	2259
40°	2109	2121	2238
45°	2039	2069	2217
50°	1950	2016	2179
55°	1874	1963	2045
60°	1788	1889	1827
65°	1675	1743	1570
70°	1543	1516	1264
75°	1361	1236	984
80°	1048	859	658
85°	660	369	251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	3.4
10°-20°	244.1	9.7
20°-30°	368.2	14.7
30°-40°	441.5	17.6
40°-50°	458.2	18.3
50°-60°	413.6	16.5
60°-70°	301.2	12.0
70°-80°	158.0	6.3
80°-90°	33.8	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°	697.7	27.9
0°-40°	1139.2	45.5
0°-60°	2011.0	80.3
0°-90°	2504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	901	899	895	901	901	86
15°	860	860	862	871	871	243
25°	783	787	796	813	817	361
35°	677	683	704	730	736	422
45°	549	561	592	629	641	423
55°	414	428	471	499	498	370
65°	277	294	326	311	299	274
75°	143	164	158	136	130	150
85°	28	33	24	19	17	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	903.0	903.0	903.0	903.0	903.0
2.5°	904.8	902.4	897.6	903.6	903.0
5°	901.2	899.4	895.2	901.2	900.6
7.5°	895.2	894.0	890.4	897.0	896.4
10°	886.8	885.0	882.6	889.8	890.4
12.5°	875.4	874.8	873.6	881.4	880.8
15°	860.4	860.4	861.6	871.2	870.6
17.5°	845.5	845.5	848.5	859.2	859.8
20°	826.9	828.1	832.3	845.5	846.7
22.5°	806.0	807.2	814.3	831.1	834.1
25°	783.2	787.4	795.8	813.1	816.7
27.5°	762.2	762.8	775.4	794.6	799.4
30°	732.3	740.7	752.1	774.2	779.0
32.5°	703.0	711.3	728.7	752.7	759.2
35°	676.6	683.2	703.6	729.9	735.9
37.5°	643.7	654.5	678.4	706.0	714.3
40°	613.1	622.7	648.5	679.6	690.4
42.5°	581.4	592.2	621.5	655.1	665.8
45°	549.1	561.1	591.6	628.7	640.7
47.5°	513.8	528.7	563.4	601.2	611.9
50°	479.6	495.2	532.3	571.8	582.6
52.5°	448.5	462.3	503.0	539.5	544.3
55°	413.8	428.1	471.2	499.4	498.2
57.5°	379.0	395.2	438.3	455.7	450.9
60°	346.7	361.7	404.8	408.4	398.2
62.5°	310.8	328.1	364.7	359.3	346.7
65°	277.2	294.0	325.7	310.8	299.4
67.5°	243.1	261.1	283.8	261.7	248.5
70°	209.6	231.1	239.5	215.6	204.8
72.5°	175.4	198.2	197.6	174.8	165.9
75°	143.1	163.5	158.1	136.5	129.9
77.5°	109.0	129.3	119.2	103.0	97.0
80°	77.2	96.4	83.2	70.7	66.5
82.5°	52.7	64.1	52.1	41.3	39.5
85°	27.5	32.9	24.0	18.6	17.4
87.5°	10.2	9.6	8.4	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)