

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-S-UNV-L830-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-S-UNV-L830-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2801.8 lumens
Efficiency: N/A
Efficacy: 114.2 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

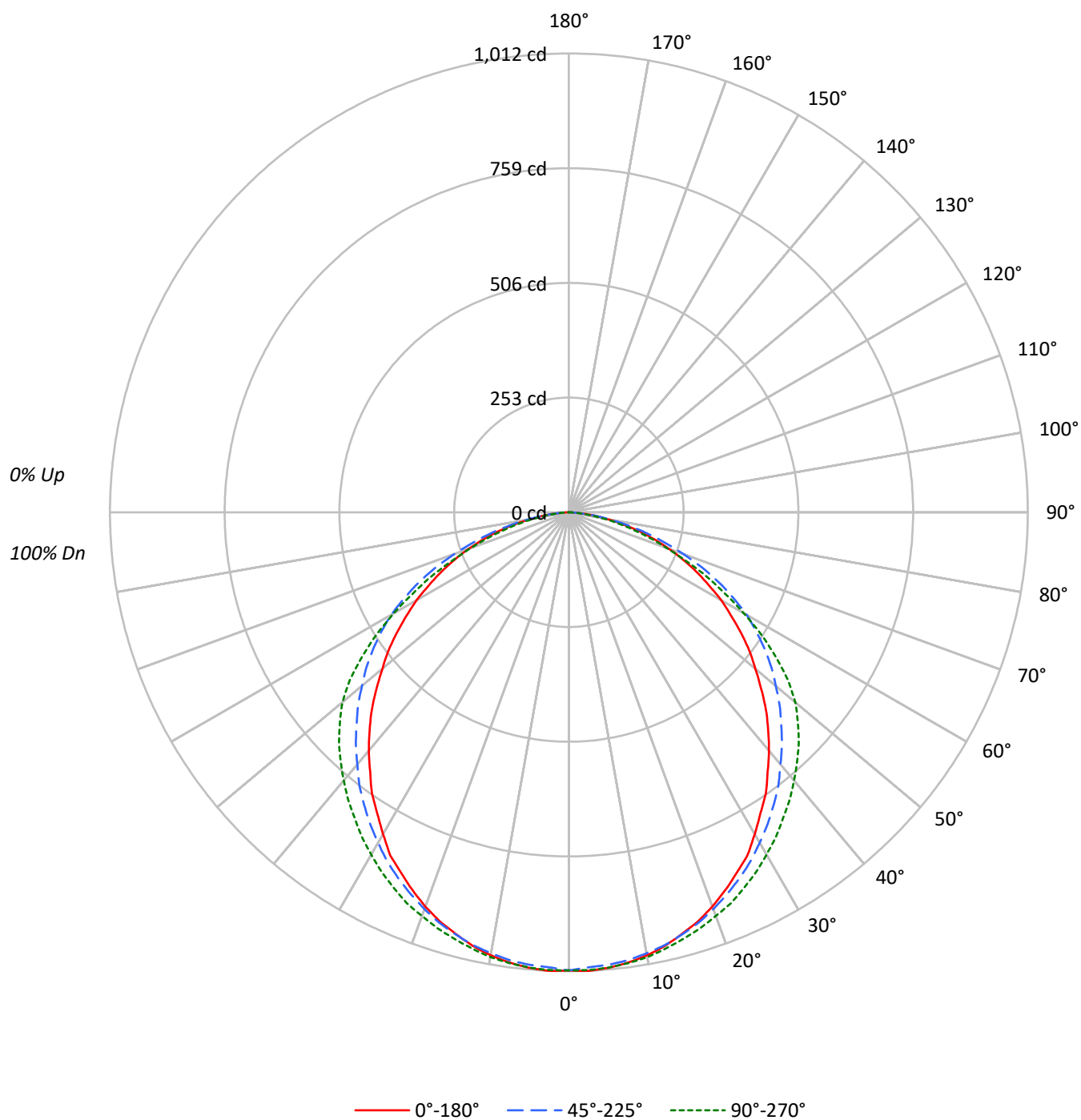
Input Watts (W): 24.53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	95		98	95	92		94	91	89		90	88	86
2	99	91	84	79	97	89	83	78		86	80	76		82	78	74		79	76	73
3	90	80	72	66	88	78	71	65		75	69	64		73	67	63		70	66	62
4	83	71	62	56	81	70	61	55		67	60	54		65	59	54		63	57	53
5	76	63	54	48	74	62	54	48		60	53	47		58	52	46		56	51	46
6	70	57	48	42	68	56	48	42		54	47	41		53	46	41		51	45	40
7	65	52	43	37	63	51	43	37		49	42	36		48	41	36		47	40	36
8	61	47	39	33	59	46	38	33		45	38	33		44	37	32		43	37	32
9	57	43	35	30	55	43	35	29		42	34	29		40	34	29		39	33	29
10	53	40	32	27	52	39	32	27		38	31	27		37	31	26		37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2719	2719	2719
5°	2718	2685	2698
10°	2700	2657	2675
15°	2664	2624	2643
20°	2626	2584	2617
25°	2572	2539	2592
30°	2510	2488	2560
35°	2444	2436	2528
40°	2361	2373	2503
45°	2281	2315	2480
50°	2182	2256	2439
55°	2097	2196	2289
60°	2001	2114	2044
65°	1875	1951	1756
70°	1726	1697	1414
75°	1523	1383	1101
80°	1173	961	736
85°	740	412	281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	3.4
10°-20°	273.1	9.7
20°-30°	412.0	14.7
30°-40°	494.0	17.6
40°-50°	512.6	18.3
50°-60°	462.8	16.5
60°-70°	337.1	12.0
70°-80°	176.8	6.3
80°-90°	37.8	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°	780.7	27.9
0°-40°	1274.7	45.5
0°-60°	2250.1	80.3
0°-90°	2801.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2801.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1008	1006	1002	1008	1008	96
15°	963	963	964	975	974	272
25°	876	881	890	910	914	404
35°	757	764	787	817	823	472
45°	614	628	662	704	717	473
55°	463	479	527	559	558	414
65°	310	329	364	348	335	307
75°	160	183	177	153	145	168
85°	31	37	27	21	20	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1010.3	1010.3	1010.3	1010.3	1010.3
2.5°	1012.3	1009.7	1004.3	1011.0	1010.3
5°	1008.3	1006.3	1001.6	1008.3	1007.7
7.5°	1001.6	1000.3	996.3	1003.7	1002.9
10°	992.3	990.2	987.5	995.6	996.3
12.5°	979.5	978.9	977.5	986.2	985.5
15°	962.7	962.7	964.1	974.8	974.1
17.5°	946.0	946.0	949.3	961.4	962.1
20°	925.2	926.5	931.3	946.0	947.3
22.5°	901.8	903.2	911.1	930.0	933.3
25°	876.4	881.0	890.4	909.8	913.8
27.5°	852.9	853.6	867.6	889.1	894.4
30°	819.4	828.8	841.5	866.3	871.6
32.5°	786.6	795.9	815.4	842.2	849.5
35°	757.1	764.5	787.3	816.7	823.4
37.5°	720.2	732.3	759.0	789.9	799.3
40°	686.1	696.8	725.6	760.4	772.4
42.5°	650.6	662.6	695.4	732.9	745.0
45°	614.4	627.8	662.0	703.5	716.9
47.5°	574.8	591.6	630.4	672.7	684.8
50°	536.7	554.0	595.6	639.8	651.9
52.5°	501.8	517.2	562.8	603.6	609.0
55°	462.9	479.0	527.2	558.8	557.5
57.5°	424.1	442.2	490.4	509.9	504.4
60°	387.9	404.7	452.9	457.0	445.6
62.5°	347.7	367.2	408.0	401.9	387.9
65°	310.2	329.0	364.5	347.7	335.0
67.5°	272.0	292.1	317.6	292.8	278.1
70°	234.5	258.6	268.0	241.2	229.1
72.5°	196.3	221.7	221.1	195.6	185.6
75°	160.2	182.9	176.9	152.8	145.4
77.5°	122.0	144.7	133.3	115.2	108.5
80°	86.4	107.8	93.1	79.0	74.4
82.5°	59.0	71.7	58.3	46.3	44.2
85°	30.8	36.9	26.8	20.8	19.5
87.5°	11.4	10.7	9.4	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)