

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-L850-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-L850-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3283.9 lumens
Efficiency: N/A
Efficacy: 133.9 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

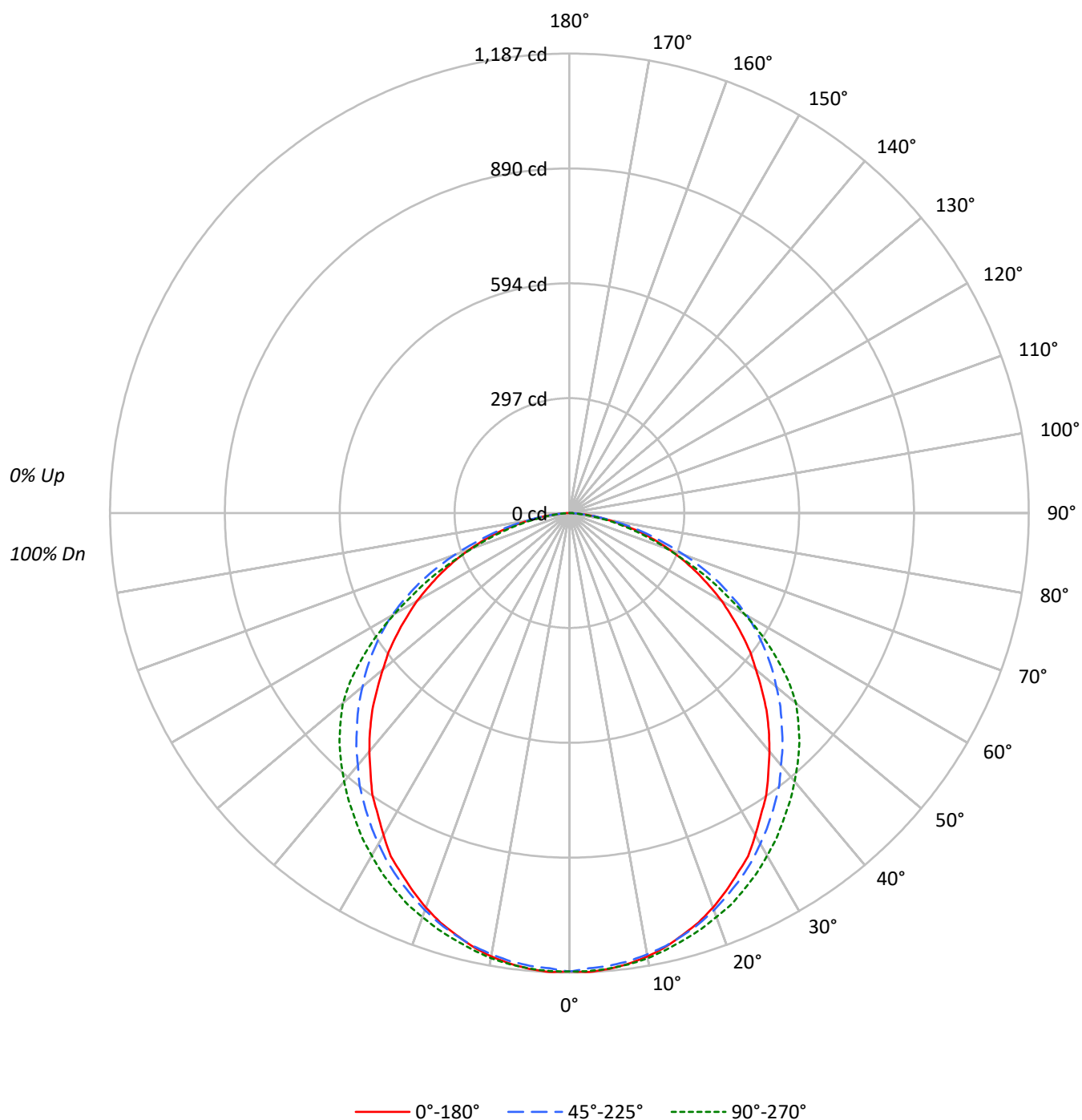
Input Watts (W): 24.53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3187	3187	3187
5°	3186	3147	3163
10°	3164	3114	3135
15°	3123	3075	3098
20°	3078	3028	3068
25°	3015	2976	3039
30°	2942	2916	3001
35°	2865	2854	2963
40°	2767	2781	2934
45°	2674	2713	2907
50°	2557	2644	2858
55°	2458	2574	2682
60°	2346	2478	2396
65°	2197	2287	2058
70°	2023	1988	1658
75°	1785	1621	1290
80°	1375	1127	862
85°	867	482	328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	3.4
10°-20°	320.1	9.7
20°-30°	482.9	14.7
30°-40°	579.0	17.6
40°-50°	600.9	18.3
50°-60°	542.4	16.5
60°-70°	395.1	12.0
70°-80°	207.2	6.3
80°-90°	44.3	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°	915.0	27.9
0°-40°	1494.0	45.5
0°-60°	2637.3	80.3
0°-90°	3283.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3283.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1182	1180	1174	1182	1181	112
15°	1128	1128	1130	1143	1142	318
25°	1027	1033	1044	1066	1071	474
35°	887	896	923	957	965	553
45°	720	736	776	824	840	554
55°	543	562	618	655	653	485
65°	364	386	427	408	393	360
75°	188	214	207	179	170	197
85°	36	43	31	24	23	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.2	1184.2	1184.2	1184.2	1184.2
2.5°	1186.6	1183.4	1177.1	1185.0	1184.2
5°	1181.9	1179.5	1174.0	1181.9	1181.1
7.5°	1174.0	1172.4	1167.7	1176.4	1175.6
10°	1163.0	1160.6	1157.5	1166.9	1167.7
12.5°	1148.1	1147.3	1145.7	1155.9	1155.2
15°	1128.5	1128.5	1130.0	1142.6	1141.8
17.5°	1108.8	1108.8	1112.7	1126.9	1127.7
20°	1084.5	1086.0	1091.5	1108.8	1110.4
22.5°	1057.0	1058.6	1068.0	1090.0	1093.9
25°	1027.2	1032.6	1043.6	1066.4	1071.1
27.5°	999.7	1000.5	1016.9	1042.1	1048.4
30°	960.4	971.4	986.3	1015.4	1021.7
32.5°	921.9	932.9	955.7	987.1	995.7
35°	887.4	896.0	922.7	957.3	965.1
37.5°	844.2	858.3	889.7	925.8	936.8
40°	804.1	816.7	850.5	891.3	905.4
42.5°	762.5	776.6	815.1	859.1	873.2
45°	720.1	735.8	775.9	824.5	840.3
47.5°	673.8	693.4	739.0	788.4	802.6
50°	629.0	649.4	698.1	749.9	764.1
52.5°	588.2	606.2	659.6	707.5	713.8
55°	542.6	561.5	618.0	654.9	653.4
57.5°	497.1	518.3	574.8	597.6	591.3
60°	454.7	474.3	530.9	535.6	522.2
62.5°	407.6	430.3	478.2	471.2	454.7
65°	363.6	385.6	427.2	407.6	392.6
67.5°	318.8	342.4	372.2	343.2	325.9
70°	274.8	303.1	314.1	282.7	268.6
72.5°	230.1	259.9	259.1	229.3	217.5
75°	187.7	214.4	207.3	179.0	170.4
77.5°	142.9	169.6	156.3	135.1	127.2
80°	101.3	126.4	109.2	92.7	87.2
82.5°	69.1	84.0	68.3	54.2	51.8
85°	36.1	43.2	31.4	24.3	22.8
87.5°	13.3	12.6	11.0	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)