

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-LD5-35-S-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-LD5-35-S-UNV-L835-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3661.8 lumens
Efficiency: N/A
Efficacy: 116.3 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

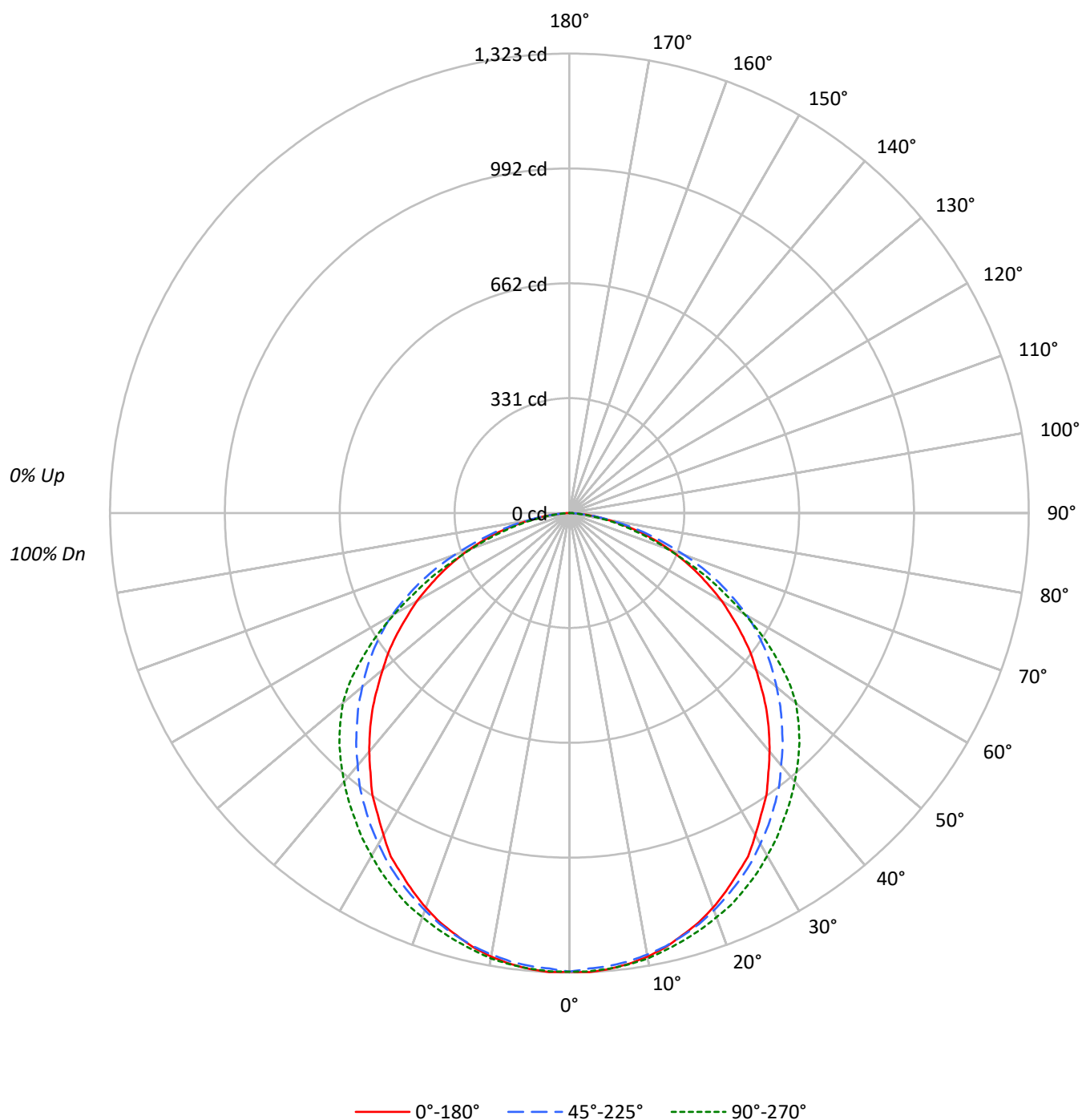
Input Watts (W): 31.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	3553	3553	3553
5°	3552	3509	3527
10°	3528	3473	3496
15°	3482	3429	3454
20°	3432	3377	3421
25°	3361	3318	3388
30°	3280	3251	3347
35°	3195	3183	3304
40°	3085	3101	3272
45°	2981	3025	3241
50°	2851	2948	3187
55°	2741	2871	2991
60°	2615	2763	2671
65°	2450	2550	2295
70°	2257	2218	1849
75°	1990	1808	1439
80°	1534	1256	961
85°	968	538	366



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.4
10°-20°	356.9	9.7
20°-30°	538.5	14.7
30°-40°	645.6	17.6
40°-50°	670.0	18.3
50°-60°	604.9	16.5
60°-70°	440.5	12.0
70°-80°	231.1	6.3
80°-90°	49.4	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°	1020.3	27.9
0°-40°	1665.9	45.5
0°-60°	2940.8	80.3
0°-90°	3661.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3661.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1318	1315	1309	1318	1317	125
15°	1258	1258	1260	1274	1273	355
25°	1145	1152	1164	1189	1194	528
35°	990	999	1029	1067	1076	617
45°	803	820	865	919	937	618
55°	605	626	689	730	728	541
65°	405	430	476	454	438	401
75°	209	239	231	200	190	220
85°	40	48	35	27	25	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.5	1320.5	1320.5	1320.5	1320.5
2.5°	1323.1	1319.6	1312.6	1321.3	1320.5
5°	1317.8	1315.2	1309.1	1317.8	1317.0
7.5°	1309.1	1307.3	1302.1	1311.7	1310.8
10°	1296.8	1294.2	1290.7	1301.2	1302.1
12.5°	1280.2	1279.3	1277.6	1288.9	1288.1
15°	1258.3	1258.3	1260.0	1274.1	1273.2
17.5°	1236.4	1236.4	1240.8	1256.5	1257.4
20°	1209.3	1211.0	1217.1	1236.4	1238.2
22.5°	1178.6	1180.4	1190.9	1215.4	1219.8
25°	1145.3	1151.5	1163.7	1189.1	1194.4
27.5°	1114.7	1115.6	1134.0	1162.0	1169.0
30°	1070.9	1083.2	1099.8	1132.2	1139.2
32.5°	1028.0	1040.3	1065.7	1100.7	1110.3
35°	989.5	999.1	1028.9	1067.4	1076.2
37.5°	941.3	957.1	992.1	1032.4	1044.6
40°	896.7	910.7	948.3	993.9	1009.6
42.5°	850.2	866.0	908.9	957.9	973.7
45°	803.0	820.5	865.1	919.4	936.9
47.5°	751.3	773.2	824.0	879.1	894.9
50°	701.4	724.2	778.4	836.2	852.0
52.5°	655.9	676.0	735.5	789.0	796.0
55°	605.1	626.1	689.1	730.3	728.5
57.5°	554.3	577.9	641.0	666.4	659.4
60°	507.0	528.9	591.9	597.2	582.3
62.5°	454.5	479.9	533.3	525.4	507.0
65°	405.4	429.9	476.3	454.5	437.8
67.5°	355.5	381.8	415.1	382.7	363.4
70°	306.5	338.0	350.3	315.2	299.5
72.5°	256.6	289.8	289.0	255.7	242.6
75°	209.3	239.0	231.2	199.6	190.0
77.5°	159.4	189.1	174.3	150.6	141.9
80°	113.0	141.0	121.7	103.3	97.2
82.5°	77.1	93.7	76.2	60.4	57.8
85°	40.3	48.2	35.0	27.1	25.4
87.5°	14.9	14.0	12.3	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)