

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-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-LD5-25-S-UNV-L830-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2404.2 lumens
Efficiency: N/A
Efficacy: 117.5 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

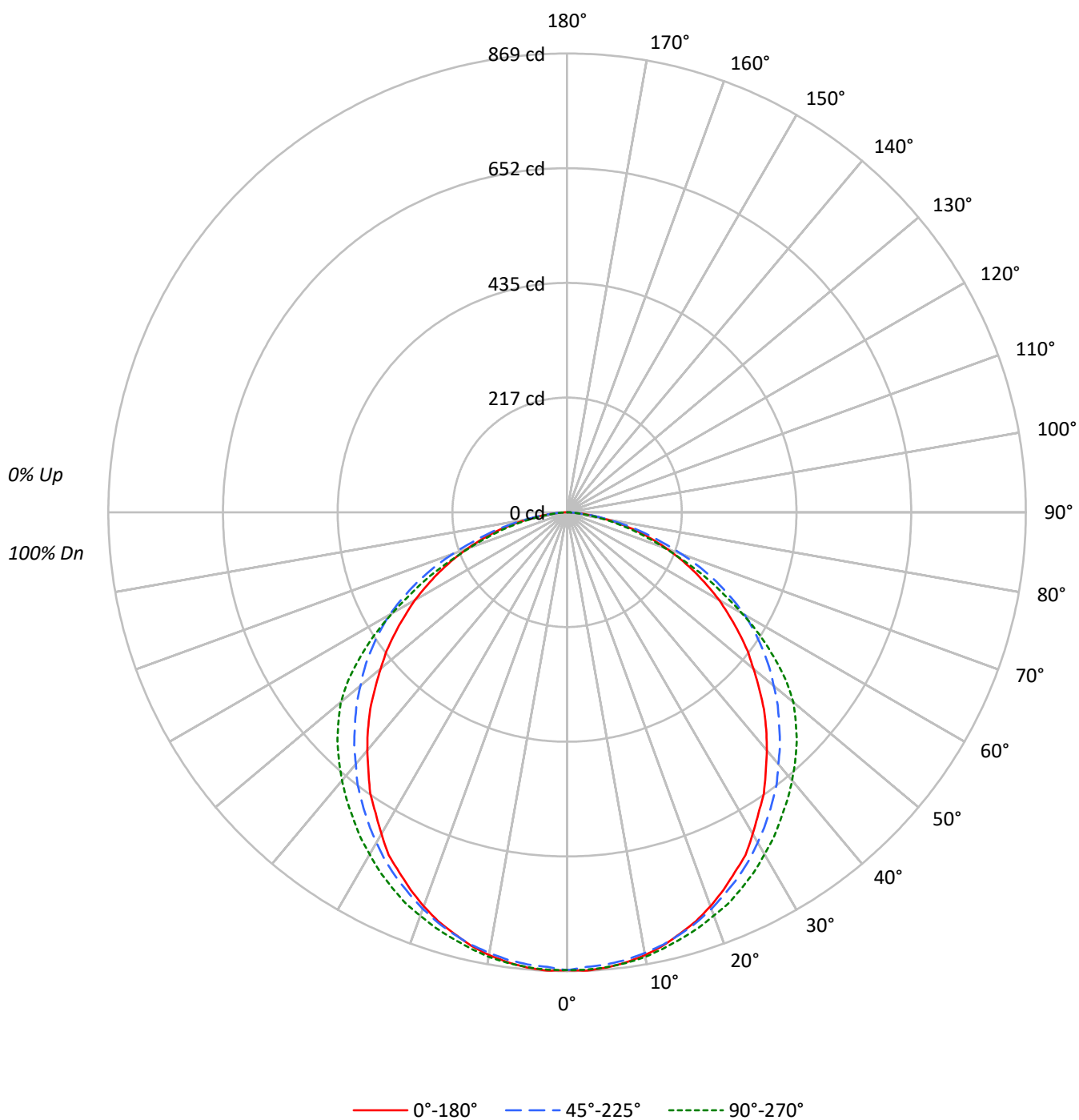
Input Watts (W): 20.46
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		70
3	90	80	72	66	88	78	71	65	75	69	64		73	67	63		59
4	83	71	62	56	81	70	61	55	67	60	54		65	59	54		51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	46		44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		34
8	61	47	39	33	59	46	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	29	42	34	29		40	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2333	2333	2333
5°	2332	2304	2316
10°	2317	2280	2296
15°	2286	2252	2268
20°	2253	2217	2246
25°	2207	2179	2225
30°	2154	2135	2197
35°	2098	2090	2169
40°	2026	2036	2148
45°	1957	1986	2128
50°	1872	1936	2093
55°	1800	1885	1964
60°	1717	1814	1754
65°	1609	1674	1507
70°	1481	1456	1213
75°	1307	1187	944
80°	1007	825	631
85°	634	353	241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.4
10°-20°	234.3	9.7
20°-30°	353.5	14.7
30°-40°	423.9	17.6
40°-50°	439.9	18.3
50°-60°	397.1	16.5
60°-70°	289.2	12.0
70°-80°	151.7	6.3
80°-90°	32.5	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°	669.9	27.9
0°-40°	1093.8	45.5
0°-60°	1930.8	80.3
0°-90°	2404.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2404.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	865	864	860	865	865	82
15°	826	826	827	836	836	233
25°	752	756	764	781	784	347
35°	650	656	676	701	707	405
45°	527	539	568	604	615	406
55°	397	411	452	480	478	355
65°	266	282	313	298	288	263
75°	137	157	152	131	125	144
85°	26	32	23	18	17	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.0	867.0	867.0	867.0	867.0
2.5°	868.7	866.4	861.8	867.5	867.0
5°	865.3	863.6	859.5	865.3	864.7
7.5°	859.5	858.3	854.9	861.3	860.7
10°	851.5	849.8	847.4	854.3	854.9
12.5°	840.6	840.0	838.8	846.3	845.7
15°	826.1	826.1	827.4	836.5	835.9
17.5°	811.8	811.8	814.6	825.0	825.6
20°	794.0	795.2	799.1	811.8	812.9
22.5°	773.9	775.0	781.8	798.0	800.8
25°	752.0	756.0	764.1	780.7	784.2
27.5°	731.9	732.4	744.5	762.9	767.5
30°	703.1	711.2	722.1	743.4	747.9
32.5°	675.0	683.0	699.7	722.7	729.0
35°	649.7	656.0	675.5	700.8	706.6
37.5°	618.1	628.4	651.4	677.8	685.9
40°	588.7	597.9	622.6	652.6	662.9
42.5°	558.2	568.6	596.8	629.0	639.4
45°	527.2	538.7	568.0	603.6	615.1
47.5°	493.2	507.7	541.0	577.2	587.6
50°	460.6	475.5	511.1	549.0	559.4
52.5°	430.6	443.8	483.0	518.0	522.6
55°	397.3	411.1	452.5	479.5	478.3
57.5°	363.9	379.4	420.8	437.5	432.9
60°	332.9	347.2	388.6	392.1	382.3
62.5°	298.4	315.0	350.2	344.9	332.9
65°	266.2	282.2	312.7	298.4	287.5
67.5°	233.4	250.7	272.6	251.3	238.6
70°	201.2	221.9	230.0	207.0	196.6
72.5°	168.4	190.3	189.7	167.9	159.2
75°	137.4	156.9	151.8	131.1	124.7
77.5°	104.6	124.2	114.4	98.9	93.1
80°	74.2	92.5	79.9	67.8	63.8
82.5°	50.6	61.6	50.1	39.7	37.9
85°	26.4	31.6	23.0	17.9	16.7
87.5°	9.8	9.2	8.1	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)