

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: **22CZ-LD5-20SE-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 (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20SE-UNV-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2069.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

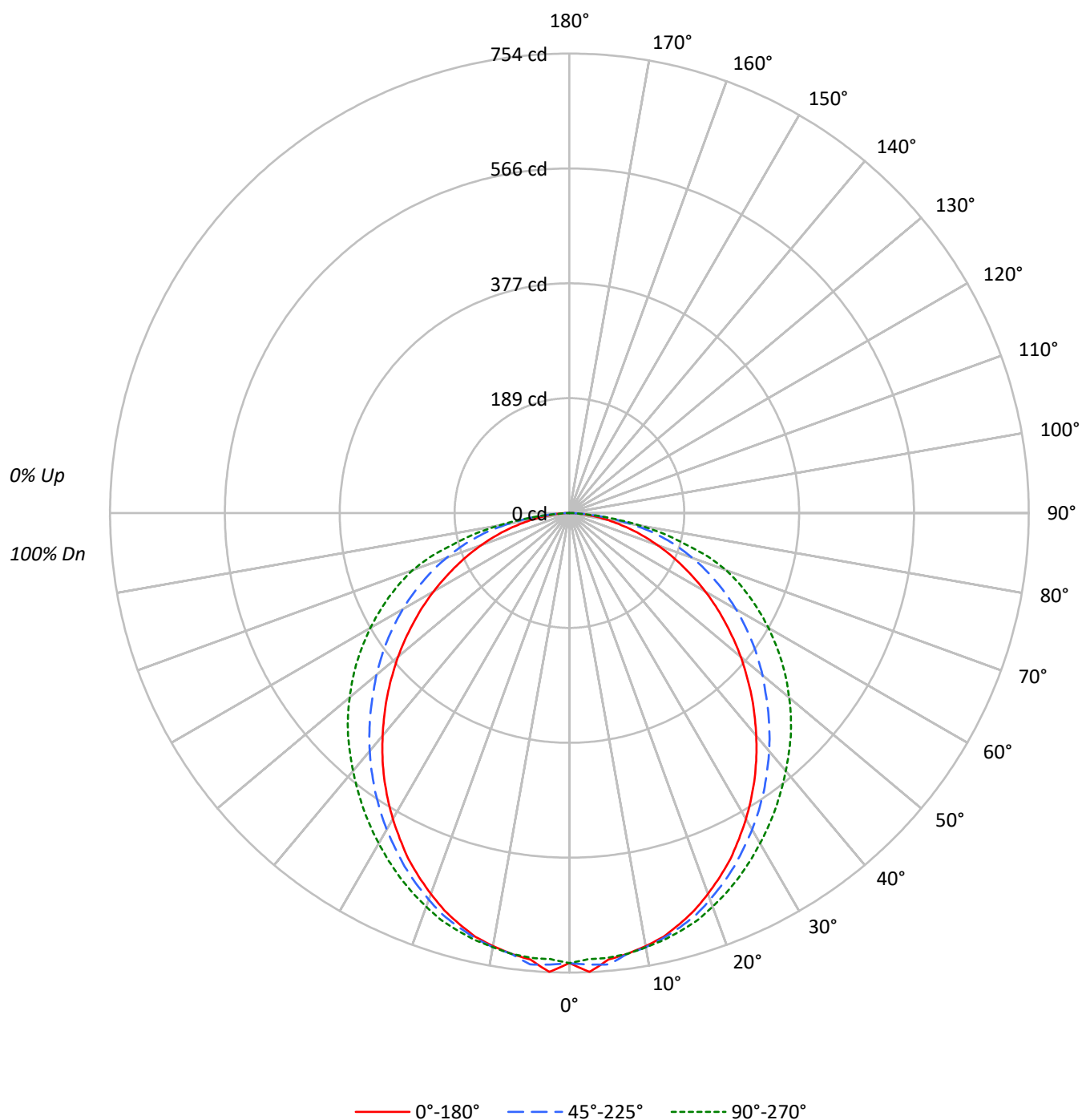
Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1987	1987	1987
5°	1978	1996	1970
10°	1954	1952	1959
15°	1920	1923	1950
20°	1870	1885	1933
25°	1816	1839	1912
30°	1750	1790	1890
35°	1683	1742	1875
40°	1608	1692	1862
45°	1532	1641	1863
50°	1451	1597	1861
55°	1366	1556	1864
60°	1276	1515	1869
65°	1174	1468	1881
70°	1065	1412	1893
75°	925	1333	1719
80°	741	1113	1409
85°	515	652	731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.4
10°-20°	198.4	9.6
20°-30°	295.1	14.3
30°-40°	349.1	16.9
40°-50°	358.8	17.3
50°-60°	327.8	15.8
60°-70°	262.3	12.7
70°-80°	164.6	8.0
80°-90°	42.9	2.1
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°	563.6	27.2
0°-40°	912.7	44.1
0°-60°	1599.3	77.3
0°-90°	2069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	736	736	744	738	732	70
15°	698	699	703	707	709	197
25°	626	630	640	651	659	288
35°	530	537	556	578	591	331
45°	423	434	462	496	514	326
55°	312	327	365	406	426	279
65°	204	222	266	306	327	203
75°	106	126	162	186	196	112
85°	26	33	38	37	37	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738.5	738.5	738.5	738.5	738.5
2.5°	753.6	750.6	741.5	735.5	732.5
5°	735.5	735.5	743.5	738.5	732.5
7.5°	729.4	729.4	729.4	744.5	729.4
10°	721.4	722.4	723.4	729.4	723.4
12.5°	712.3	712.3	714.3	716.4	717.4
15°	698.3	699.3	703.3	707.3	709.3
17.5°	683.2	686.2	691.2	696.2	700.3
20°	665.0	669.1	675.1	683.2	687.2
22.5°	645.9	650.0	658.0	667.1	674.1
25°	625.8	629.8	639.9	651.0	659.0
27.5°	602.7	607.7	619.8	634.9	642.9
30°	579.5	585.6	599.7	616.8	625.8
32.5°	555.4	562.4	578.5	597.6	608.7
35°	530.2	537.3	556.4	577.5	590.6
37.5°	504.1	512.1	533.2	557.4	571.5
40°	476.9	486.0	510.1	536.3	552.4
42.5°	449.7	459.8	486.0	517.1	533.2
45°	422.6	433.6	461.8	496.0	514.1
47.5°	394.4	407.5	436.7	474.9	493.0
50°	367.2	380.3	413.5	452.8	470.9
52.5°	339.1	354.2	389.4	429.6	448.7
55°	311.9	327.0	365.2	405.5	425.6
57.5°	284.7	299.8	340.1	381.3	401.4
60°	257.6	273.7	315.9	356.2	377.3
62.5°	230.4	247.5	290.8	332.0	352.1
65°	204.2	222.4	265.6	305.9	327.0
67.5°	179.1	198.2	240.5	279.7	300.8
70°	153.9	173.1	214.3	252.5	273.7
72.5°	129.8	148.9	189.2	223.4	239.5
75°	105.6	125.8	162.0	186.1	196.2
77.5°	82.5	102.6	133.8	149.9	161.0
80°	61.4	78.5	100.6	112.7	116.7
82.5°	42.3	56.3	70.4	73.4	75.5
85°	26.2	33.2	38.2	37.2	37.2
87.5°	12.1	13.1	11.1	8.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)