

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-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 (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-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

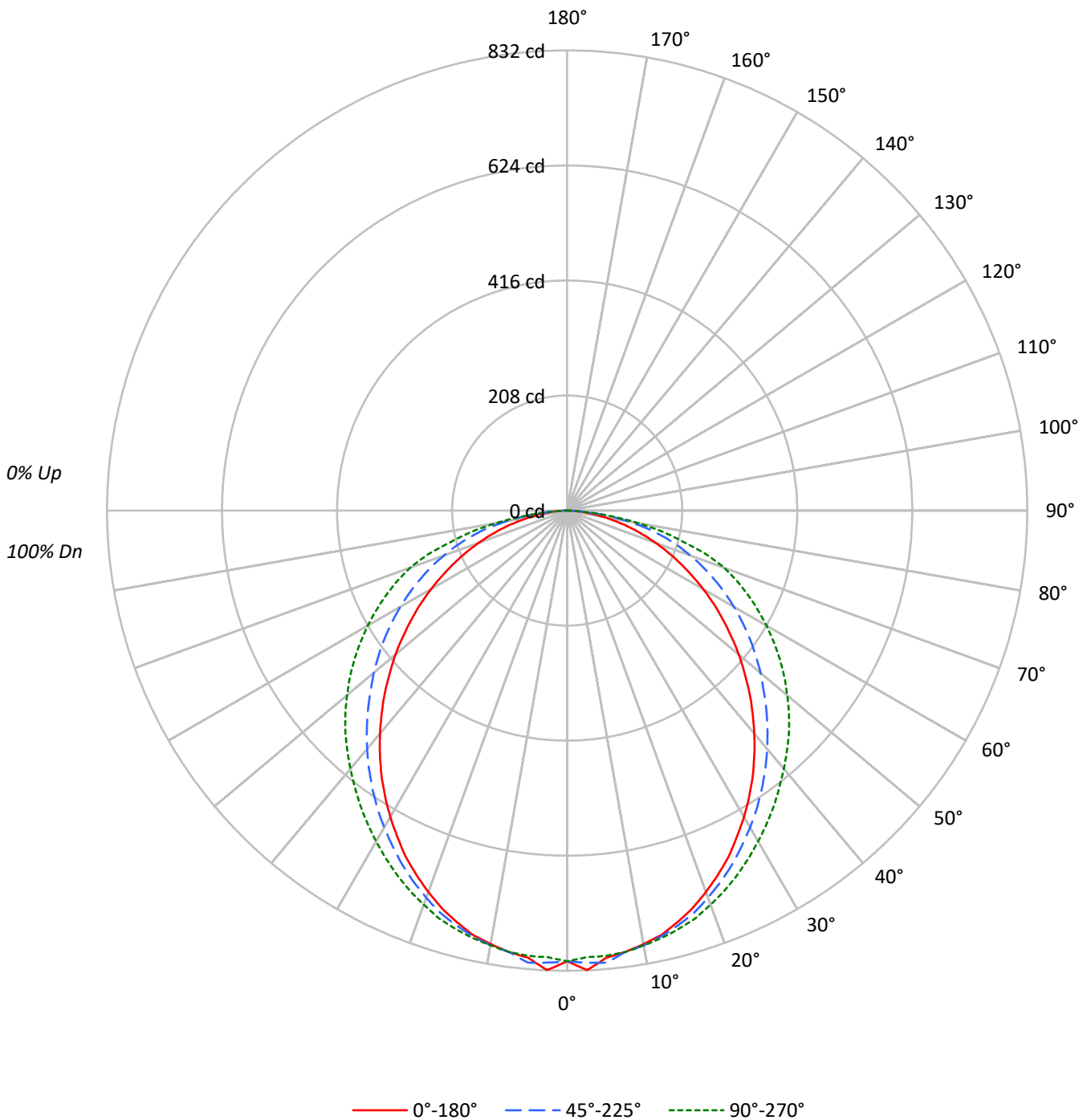
Lumens per Lamp: N/A
Luminaire Lumens: 2282.8 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2193	2193	2193
5°	2183	2202	2174
10°	2156	2154	2162
15°	2118	2122	2151
20°	2064	2080	2132
25°	2003	2029	2110
30°	1931	1975	2085
35°	1857	1922	2068
40°	1774	1866	2055
45°	1690	1811	2056
50°	1601	1762	2053
55°	1507	1717	2056
60°	1408	1671	2062
65°	1296	1621	2075
70°	1175	1558	2088
75°	1022	1470	1897
80°	817	1228	1555
85°	568	721	807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.4
10°-20°	218.9	9.6
20°-30°	325.6	14.3
30°-40°	385.1	16.9
40°-50°	395.9	17.3
50°-60°	361.7	15.8
60°-70°	289.4	12.7
70°-80°	181.6	8.0
80°-90°	47.3	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°	621.8	27.2
0°-40°	1007.0	44.1
0°-60°	1764.6	77.3
0°-90°	2282.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	812	812	820	815	808	77
15°	770	772	776	780	783	217
25°	690	695	706	718	727	317
35°	585	593	614	637	652	366
45°	466	478	510	547	567	359
55°	344	361	403	447	470	308
65°	225	245	293	338	361	224
75°	117	139	179	205	216	124
85°	29	37	42	41	41	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	814.8	814.8	814.8	814.8	814.8
2.5°	831.5	828.1	818.1	811.5	808.2
5°	811.5	811.5	820.4	814.8	808.2
7.5°	804.8	804.8	804.8	821.5	804.8
10°	795.9	797.1	798.2	804.8	798.2
12.5°	786.0	786.0	788.2	790.4	791.5
15°	770.4	771.5	776.0	780.4	782.6
17.5°	753.8	757.1	762.6	768.2	772.6
20°	733.8	738.2	744.9	753.8	758.2
22.5°	712.7	717.1	726.0	736.0	743.8
25°	690.5	694.9	706.0	718.2	727.1
27.5°	665.0	670.5	683.8	700.5	709.4
30°	639.4	646.1	661.6	680.5	690.5
32.5°	612.8	620.5	638.3	659.4	671.6
35°	585.0	592.8	613.9	637.2	651.6
37.5°	556.2	565.0	588.4	615.0	630.5
40°	526.2	536.2	562.8	591.7	609.4
42.5°	496.2	507.3	536.2	570.6	588.4
45°	466.2	478.5	509.5	547.3	567.3
47.5°	435.2	449.6	481.8	524.0	543.9
50°	405.2	419.6	456.3	499.5	519.5
52.5°	374.1	390.8	429.6	474.0	495.1
55°	344.1	360.8	403.0	447.4	469.6
57.5°	314.2	330.8	375.2	420.7	442.9
60°	284.2	301.9	348.6	393.0	416.3
62.5°	254.2	273.1	320.8	366.3	388.5
65°	225.4	245.3	293.1	337.5	360.8
67.5°	197.6	218.7	265.3	308.6	331.9
70°	169.8	190.9	236.5	278.6	301.9
72.5°	143.2	164.3	208.7	246.4	264.2
75°	116.6	138.8	178.7	205.4	216.5
77.5°	91.0	113.2	147.6	165.4	177.6
80°	67.7	86.6	111.0	124.3	128.8
82.5°	46.6	62.2	77.7	81.0	83.3
85°	28.9	36.6	42.2	41.1	41.1
87.5°	13.3	14.4	12.2	8.9	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)