

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-LD5-24-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 (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-UNV-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

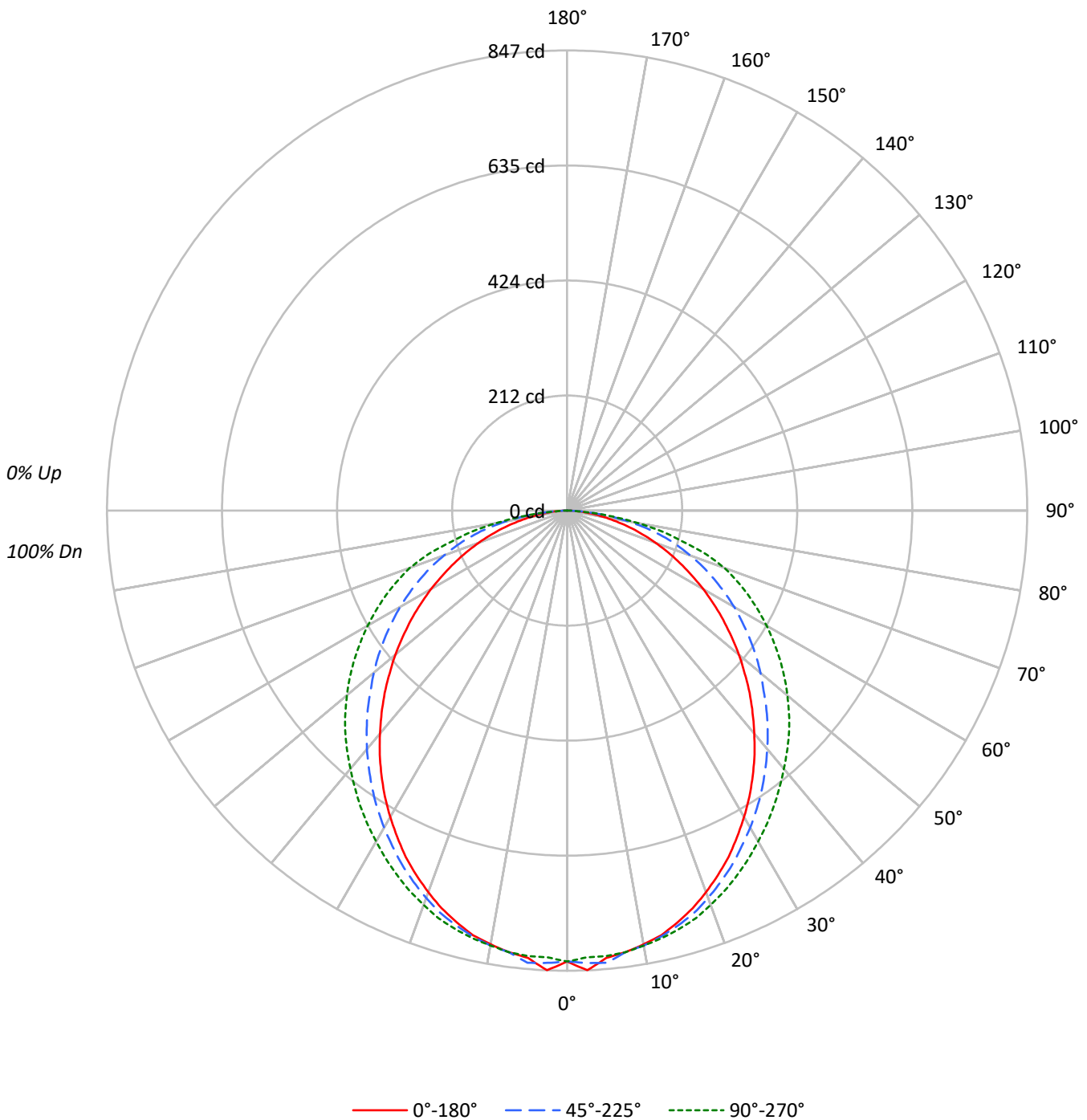
Lumens per Lamp: N/A
Luminaire Lumens: 2325.1 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 19.62
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°	2233	2233	2233
5°	2223	2243	2214
10°	2196	2194	2202
15°	2157	2161	2191
20°	2102	2118	2172
25°	2041	2067	2149
30°	1967	2012	2124
35°	1891	1957	2107
40°	1807	1901	2093
45°	1721	1845	2094
50°	1631	1794	2091
55°	1535	1749	2094
60°	1434	1702	2100
65°	1320	1650	2113
70°	1197	1586	2127
75°	1041	1497	1932
80°	833	1250	1584
85°	578	733	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	3.4
10°-20°	223.0	9.6
20°-30°	331.7	14.3
30°-40°	392.3	16.9
40°-50°	403.2	17.3
50°-60°	368.4	15.8
60°-70°	294.7	12.7
70°-80°	185.0	8.0
80°-90°	48.2	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°	633.4	27.2
0°-40°	1025.6	44.1
0°-60°	1797.3	77.3
0°-90°	2325.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2325.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	826	826	836	830	823	79
15°	785	786	790	795	797	221
25°	703	708	719	732	741	323
35°	596	604	625	649	664	372
45°	475	487	519	558	578	366
55°	351	368	410	456	478	314
65°	230	250	298	344	368	228
75°	119	141	182	209	220	126
85°	29	37	43	42	42	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	829.9	829.9	829.9	829.9	829.9
2.5°	846.8	843.5	833.3	826.5	823.1
5°	826.5	826.5	835.5	829.9	823.1
7.5°	819.8	819.8	819.8	836.7	819.8
10°	810.7	811.8	812.9	819.8	812.9
12.5°	800.5	800.5	802.8	805.0	806.2
15°	784.7	785.8	790.3	794.9	797.1
17.5°	767.7	771.1	776.7	782.4	787.0
20°	747.4	751.9	758.7	767.7	772.3
22.5°	725.9	730.5	739.5	749.6	757.5
25°	703.3	707.8	719.2	731.5	740.6
27.5°	677.3	683.0	696.4	713.4	722.5
30°	651.2	658.1	673.8	693.1	703.3
32.5°	624.2	632.0	650.1	671.6	684.1
35°	595.8	603.8	625.3	649.0	663.7
37.5°	566.5	575.5	599.3	626.4	642.2
40°	535.9	546.2	573.2	602.7	620.7
42.5°	505.4	516.7	546.2	581.1	599.3
45°	474.9	487.4	519.0	557.5	577.8
47.5°	443.2	457.9	490.7	533.7	554.0
50°	412.7	427.4	464.7	508.8	529.2
52.5°	381.0	398.0	437.6	482.8	504.3
55°	350.6	367.5	410.4	455.6	478.2
57.5°	320.0	337.0	382.2	428.5	451.2
60°	289.5	307.5	355.0	400.2	424.0
62.5°	258.9	278.2	326.8	373.2	395.8
65°	229.5	249.8	298.5	343.7	367.5
67.5°	201.3	222.8	270.3	314.4	338.1
70°	173.0	194.5	240.8	283.8	307.5
72.5°	145.8	167.3	212.6	251.0	269.1
75°	118.8	141.4	182.0	209.2	220.5
77.5°	92.7	115.3	150.4	168.4	180.9
80°	69.0	88.2	113.0	126.6	131.2
82.5°	47.5	63.3	79.1	82.6	84.8
85°	29.4	37.3	42.9	41.8	41.8
87.5°	13.6	14.7	12.4	9.0	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)