

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-LD5-24SE-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 (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24SE-S-UNV-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

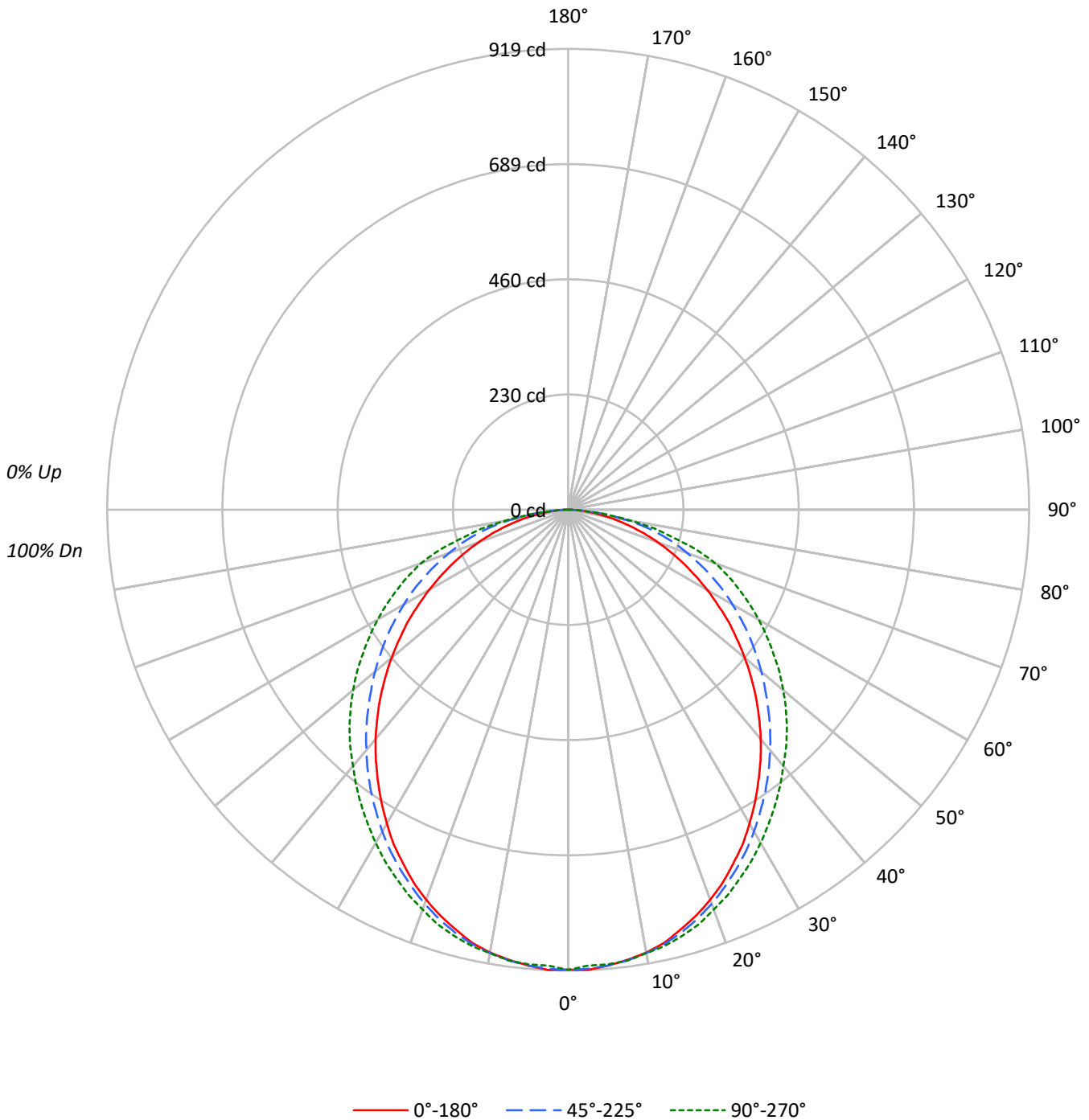
Lumens per Lamp: N/A
Luminaire Lumens: 2516.4 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 21.1
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2469	2469	2469
5°	2454	2450	2448
10°	2429	2424	2432
15°	2382	2386	2419
20°	2328	2335	2386
25°	2259	2276	2353
30°	2183	2212	2318
35°	2098	2145	2282
40°	2013	2076	2249
45°	1919	2006	2234
50°	1815	1941	2211
55°	1710	1880	2186
60°	1586	1814	2173
65°	1460	1744	2162
70°	1313	1664	2157
75°	1133	1561	1917
80°	919	1310	1547
85°	617	763	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.4
10°-20°	246.1	9.8
20°-30°	365.5	14.5
30°-40°	430.2	17.1
40°-50°	438.6	17.4
50°-60°	395.6	15.7
60°-70°	311.6	12.4
70°-80°	192.2	7.6
80°-90°	49.9	2.0
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°	698.2	27.7
0°-40°	1128.5	44.8
0°-60°	1962.7	78.0
0°-90°	2516.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2516.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	912	914	912	911	910	87
15°	867	870	873	878	880	244
25°	778	783	792	805	811	359
35°	661	668	685	707	719	414
45°	529	538	564	598	616	408
55°	390	404	441	481	499	348
65°	254	272	316	355	376	251
75°	129	151	190	212	219	138
85°	31	40	45	42	40	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	917.4	917.4	917.4	917.4	917.4
2.5°	918.6	918.6	916.1	913.7	910.1
5°	912.5	913.7	912.5	911.3	910.1
7.5°	905.3	906.5	906.5	906.5	906.5
10°	896.8	898.0	898.0	898.0	898.0
12.5°	884.7	885.9	887.1	888.3	890.8
15°	866.6	870.2	872.6	877.5	879.9
17.5°	848.5	852.1	855.7	861.8	866.6
20°	827.9	830.3	836.4	843.6	848.5
22.5°	805.0	808.6	814.6	824.3	831.5
25°	778.4	783.2	791.7	805.0	811.0
27.5°	753.0	756.6	767.5	782.0	790.4
30°	722.8	727.6	740.9	759.0	767.5
32.5°	692.5	698.6	713.1	733.6	743.3
35°	661.1	668.4	685.3	707.1	719.1
37.5°	629.7	637.0	656.3	680.5	693.8
40°	597.1	604.3	626.1	652.7	667.2
42.5°	563.2	571.7	595.9	626.1	643.0
45°	529.4	537.8	564.4	598.3	616.4
47.5°	494.3	504.0	533.0	570.5	588.6
50°	459.3	470.2	502.8	541.5	559.6
52.5°	424.2	436.3	471.4	511.3	530.6
55°	390.4	403.7	441.2	481.0	499.2
57.5°	354.1	369.8	409.7	448.4	469.0
60°	320.3	337.2	378.3	417.0	438.7
62.5°	286.4	304.6	348.1	386.8	407.3
65°	253.8	271.9	315.5	355.3	375.9
67.5°	221.2	241.7	284.0	323.9	344.5
70°	189.8	211.5	252.6	291.3	311.8
72.5°	159.5	181.3	222.4	258.6	270.7
75°	129.3	151.1	189.8	211.5	218.8
77.5°	101.5	122.1	155.9	169.2	178.9
80°	76.1	94.3	118.4	126.9	128.1
82.5°	52.0	67.7	82.2	83.4	82.2
85°	31.4	39.9	44.7	42.3	39.9
87.5°	14.5	15.7	14.5	9.7	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)