

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-UNV-L840-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-LD5-24SE-UNV-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2516.3 lumens
Efficiency: N/A
Efficacy: 119.3 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

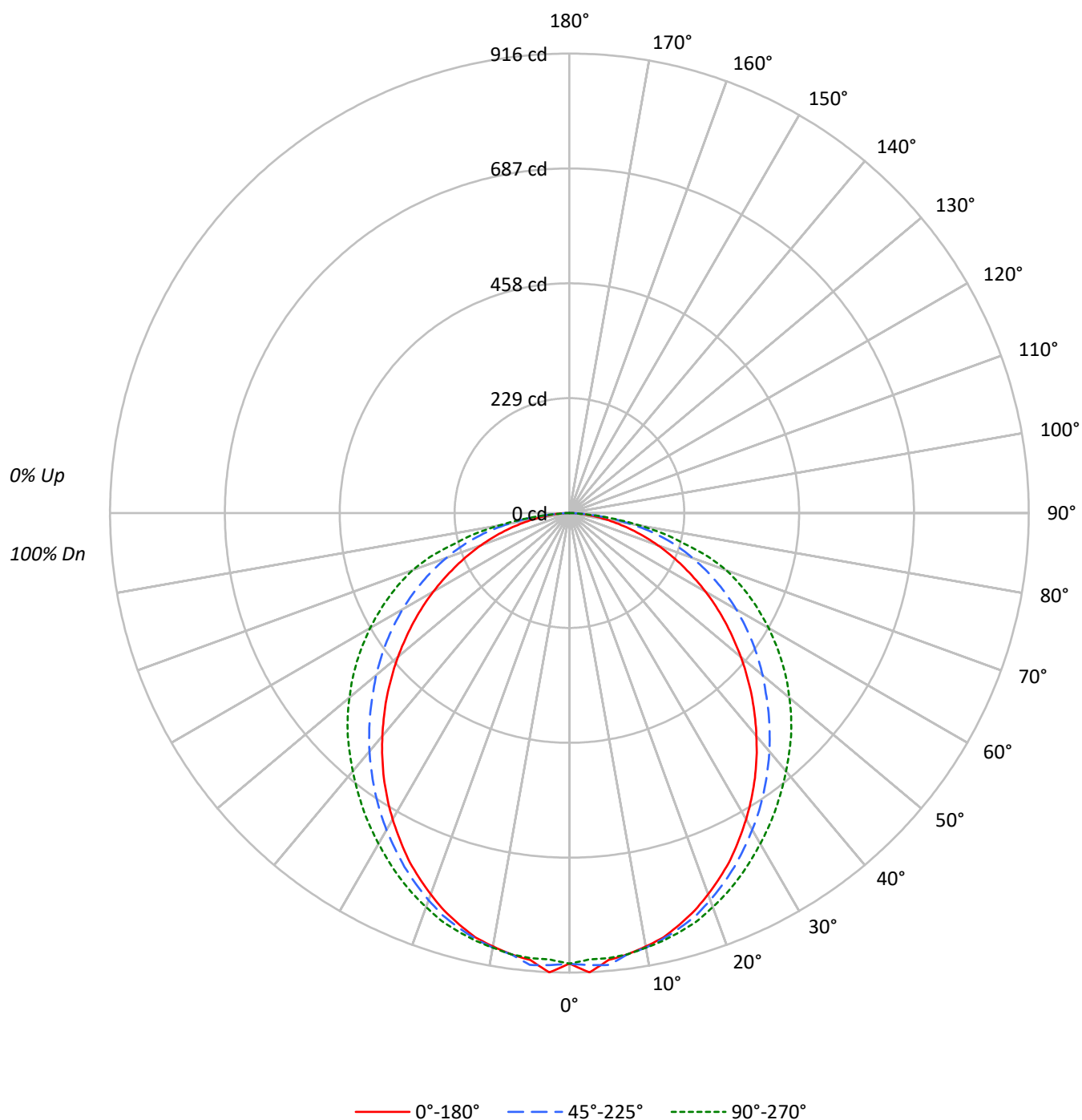
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2417	2417	2417
5°	2406	2428	2396
10°	2377	2374	2383
15°	2335	2338	2372
20°	2275	2292	2351
25°	2208	2237	2326
30°	2129	2177	2299
35°	2047	2118	2280
40°	1955	2057	2265
45°	1863	1996	2266
50°	1765	1942	2263
55°	1661	1893	2267
60°	1552	1842	2273
65°	1428	1786	2287
70°	1295	1717	2302
75°	1126	1621	2091
80°	901	1354	1713
85°	625	794	890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	3.4
10°-20°	241.3	9.6
20°-30°	359.0	14.3
30°-40°	424.5	16.9
40°-50°	436.4	17.3
50°-60°	398.7	15.8
60°-70°	319.0	12.7
70°-80°	200.2	8.0
80°-90°	52.1	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°	685.4	27.2
0°-40°	1110.0	44.1
0°-60°	1945.1	77.3
0°-90°	2516.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2516.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	894	894	904	898	891	85
15°	849	850	855	860	863	239
25°	761	766	778	792	802	350
35°	645	653	677	702	718	403
45°	514	527	562	603	625	396
55°	379	398	444	493	518	339
65°	248	270	323	372	398	247
75°	128	153	197	226	239	136
85°	32	40	46	45	45	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.2	898.2	898.2	898.2	898.2
2.5°	916.5	912.9	901.8	894.5	890.8
5°	894.5	894.5	904.3	898.2	890.8
7.5°	887.2	887.2	887.2	905.5	887.2
10°	877.4	878.6	879.8	887.2	879.8
12.5°	866.4	866.4	868.8	871.2	872.5
15°	849.2	850.4	855.3	860.2	862.7
17.5°	830.9	834.5	840.7	846.8	851.7
20°	808.8	813.7	821.1	830.9	835.8
22.5°	785.6	790.5	800.3	811.3	819.9
25°	761.1	766.0	778.2	791.7	801.5
27.5°	733.0	739.1	753.8	772.1	781.9
30°	704.8	712.2	729.3	750.1	761.1
32.5°	675.5	684.0	703.6	726.9	740.3
35°	644.9	653.4	676.7	702.4	718.3
37.5°	613.1	622.8	648.5	677.9	695.0
40°	580.0	591.0	620.4	652.2	671.8
42.5°	547.0	559.2	591.0	629.0	648.5
45°	513.9	527.4	561.7	603.3	625.3
47.5°	479.7	495.6	531.1	577.6	599.6
50°	446.6	462.5	502.9	550.6	572.7
52.5°	412.4	430.7	473.6	522.5	545.8
55°	379.3	397.7	444.2	493.1	517.6
57.5°	346.3	364.7	413.6	463.8	488.2
60°	313.3	332.8	384.2	433.2	458.9
62.5°	280.2	301.0	353.6	403.8	428.3
65°	248.4	270.4	323.0	372.0	397.7
67.5°	217.8	241.1	292.5	340.2	365.9
70°	187.2	210.5	260.6	307.1	332.8
72.5°	157.9	181.1	230.0	271.7	291.2
75°	128.5	153.0	197.0	226.4	238.6
77.5°	100.3	124.8	162.7	182.3	195.8
80°	74.6	95.4	122.4	137.0	141.9
82.5°	51.4	68.5	85.7	89.3	91.8
85°	31.8	40.4	46.5	45.3	45.3
87.5°	14.7	15.9	13.5	9.8	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)