

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-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-LD5-24SE-UNV-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2322.3 lumens
Efficiency: N/A
Efficacy: 110.1 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

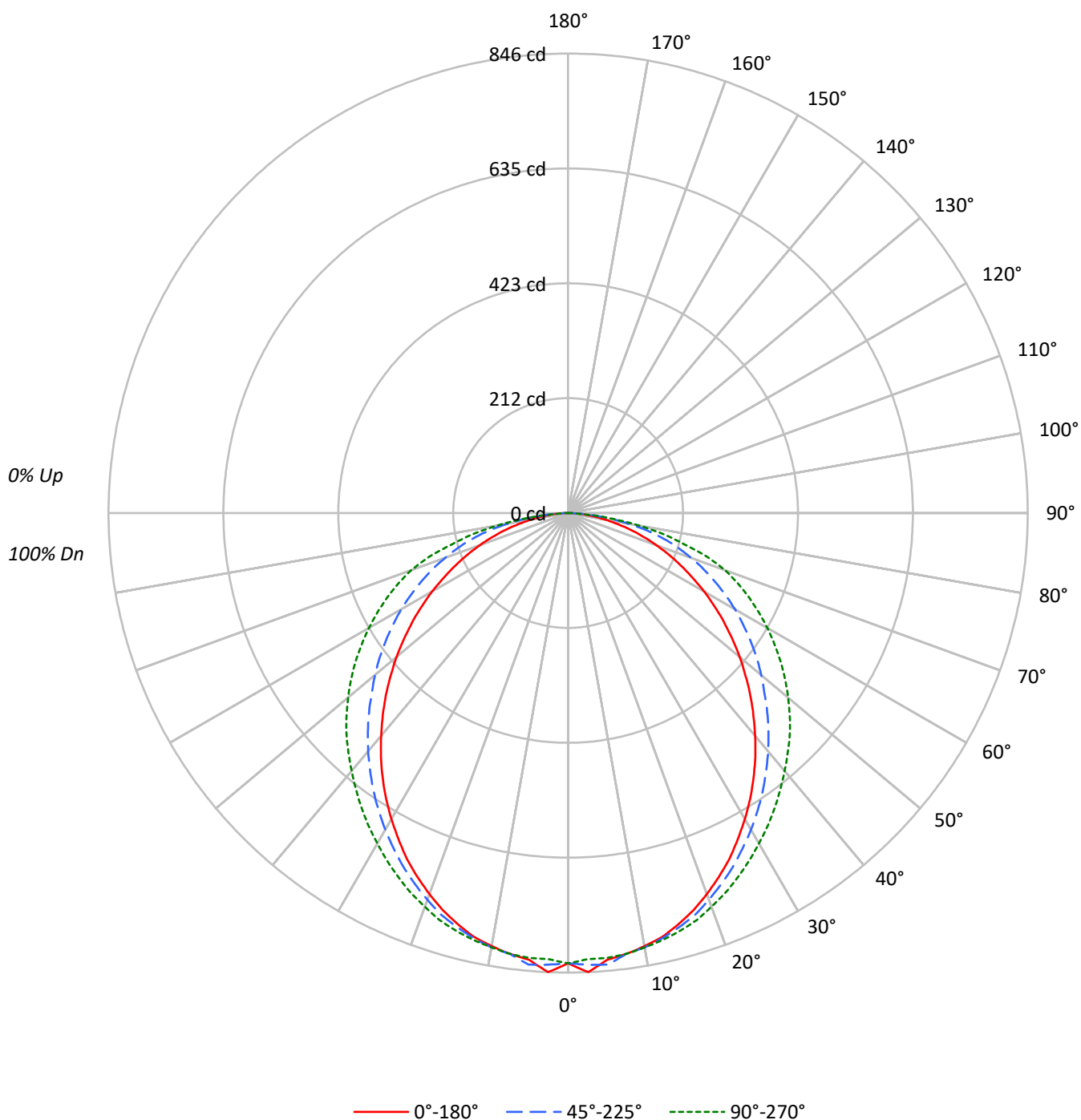
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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°	2231	2231	2231
5°	2220	2241	2211
10°	2193	2191	2199
15°	2155	2158	2189
20°	2099	2115	2169
25°	2038	2064	2146
30°	1965	2009	2121
35°	1889	1955	2104
40°	1805	1899	2090
45°	1719	1842	2091
50°	1629	1792	2088
55°	1533	1747	2092
60°	1432	1700	2098
65°	1318	1648	2111
70°	1195	1584	2124
75°	1039	1496	1929
80°	832	1250	1582
85°	578	733	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.4
10°-20°	222.7	9.6
20°-30°	331.3	14.3
30°-40°	391.8	16.9
40°-50°	402.7	17.3
50°-60°	368.0	15.8
60°-70°	294.4	12.7
70°-80°	184.7	8.0
80°-90°	48.1	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°	632.6	27.2
0°-40°	1024.4	44.1
0°-60°	1795.0	77.3
0°-90°	2322.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2322.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	826	826	835	829	822	78
15°	784	785	789	794	796	221
25°	702	707	718	731	740	323
35°	595	603	624	648	663	372
45°	474	487	518	557	577	366
55°	350	367	410	455	478	313
65°	229	250	298	343	367	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°	828.9	828.9	828.9	828.9	828.9
2.5°	845.9	842.5	832.3	825.6	822.1
5°	825.6	825.6	834.6	828.9	822.1
7.5°	818.7	818.7	818.7	835.7	818.7
10°	809.7	810.8	812.0	818.7	812.0
12.5°	799.5	799.5	801.8	804.1	805.2
15°	783.8	784.9	789.4	793.9	796.2
17.5°	766.7	770.2	775.9	781.5	786.0
20°	746.4	751.0	757.7	766.7	771.3
22.5°	725.0	729.5	738.5	748.7	756.6
25°	702.4	706.9	718.2	730.6	739.7
27.5°	676.4	682.1	695.7	712.6	721.6
30°	650.5	657.2	673.1	692.3	702.4
32.5°	623.4	631.3	649.3	670.8	683.2
35°	595.2	603.1	624.5	648.2	662.9
37.5°	565.8	574.8	598.5	625.7	641.4
40°	535.3	545.5	572.6	601.9	620.0
42.5°	504.8	516.0	545.5	580.4	598.5
45°	474.3	486.7	518.3	556.7	577.0
47.5°	442.7	457.3	490.1	533.0	553.4
50°	412.2	426.8	464.2	508.2	528.5
52.5°	380.6	397.5	437.0	482.2	503.7
55°	350.1	367.0	409.9	455.1	477.7
57.5°	319.6	336.5	381.7	428.0	450.6
60°	289.1	307.1	354.6	399.8	423.5
62.5°	258.6	277.8	326.3	372.7	395.3
65°	229.2	249.6	298.1	343.3	367.0
67.5°	201.0	222.5	269.9	314.0	337.6
70°	172.8	194.3	240.5	283.5	307.1
72.5°	145.6	167.1	212.3	250.7	268.8
75°	118.6	141.2	181.8	208.9	220.2
77.5°	92.6	115.2	150.2	168.2	180.7
80°	68.9	88.1	113.0	126.4	131.0
82.5°	47.4	63.3	79.0	82.5	84.7
85°	29.4	37.2	42.9	41.8	41.8
87.5°	13.6	14.7	12.4	9.0	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)