

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: P230565

Luminaire Tested: **22CZ-LD5-32SE-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230565
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-LD5-32SE-UNV-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (56) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2758.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

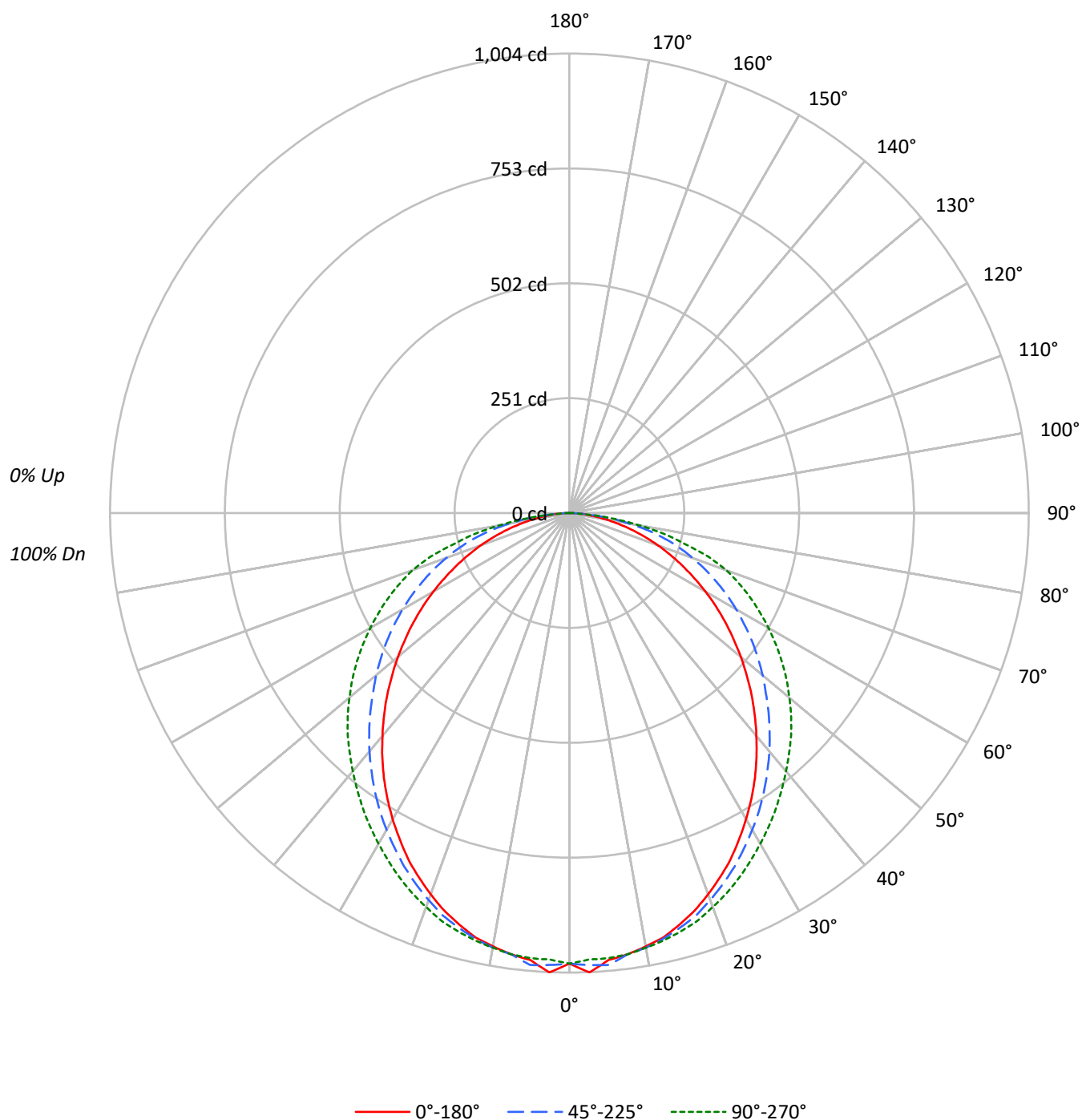
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P230565

CATALOG NUMBER: 22CZ-LD5-32SE-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P230565

CATALOG NUMBER: 22CZ-LD5-32SE-UNV-L935-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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°	2649	2649	2649
5°	2648	2677	2638
10°	2628	2635	2635
15°	2593	2612	2634
20°	2539	2577	2623
25°	2477	2533	2608
30°	2400	2484	2592
35°	2322	2437	2586
40°	2233	2389	2586
45°	2144	2343	2608
50°	2049	2308	2628
55°	1951	2284	2662
60°	1848	2266	2707
65°	1734	2255	2776
70°	1614	2248	2870
75°	1464	2245	2719
80°	1268	2078	2411
85°	1078	1575	1531



TEST NUMBER: P230565

CATALOG NUMBER: 22CZ-LD5-32SE-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	3.4
10°-20°	264.5	9.6
20°-30°	393.4	14.3
30°-40°	465.3	16.9
40°-50°	478.3	17.3
50°-60°	437.0	15.8
60°-70°	349.6	12.7
70°-80°	219.4	8.0
80°-90°	57.1	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°	751.3	27.2
0°-40°	1216.6	44.1
0°-60°	2131.9	77.3
0°-90°	2758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	980	980	991	984	976	93
15°	931	932	938	943	946	262
25°	834	840	853	868	878	384
35°	707	716	742	770	787	442
45°	563	578	616	661	685	434
55°	416	436	487	540	567	372
65°	272	296	354	408	436	270
75°	141	168	216	248	262	150
85°	35	44	51	50	50	40
90°	0	0	0	0	0	



TEST NUMBER: P230565

CATALOG NUMBER: 22CZ-LD5-32SE-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.4	984.4	984.4	984.4	984.4
2.5°	1004.5	1000.5	988.4	980.4	976.4
5°	980.4	980.4	991.1	984.4	976.4
7.5°	972.4	972.4	972.4	992.5	972.4
10°	961.6	963.0	964.3	972.4	964.3
12.5°	949.6	949.6	952.2	954.9	956.3
15°	930.8	932.1	937.5	942.8	945.5
17.5°	910.7	914.7	921.4	928.1	933.5
20°	886.5	891.9	899.9	910.7	916.0
22.5°	861.0	866.4	877.1	889.2	898.6
25°	834.2	839.6	853.0	867.7	878.5
27.5°	803.4	810.1	826.2	846.3	857.0
30°	772.5	780.6	799.3	822.1	834.2
32.5°	740.3	749.7	771.2	796.7	811.4
35°	706.8	716.2	741.7	769.8	787.3
37.5°	671.9	682.7	710.8	743.0	761.8
40°	635.7	647.8	680.0	714.8	736.3
42.5°	599.5	612.9	647.8	689.4	710.8
45°	563.3	578.0	615.6	661.2	685.3
47.5°	525.7	543.2	582.1	633.0	657.2
50°	489.5	507.0	551.2	603.5	627.7
52.5°	452.0	472.1	519.0	572.7	598.2
55°	415.8	435.9	486.8	540.5	567.3
57.5°	379.6	399.7	453.3	508.3	535.1
60°	343.3	364.8	421.1	474.8	502.9
62.5°	307.1	329.9	387.6	442.6	469.4
65°	272.3	296.4	354.1	407.7	435.9
67.5°	238.7	264.2	320.5	372.8	401.0
70°	205.2	230.7	285.7	336.6	364.8
72.5°	173.0	198.5	252.1	297.7	319.2
75°	140.8	167.6	215.9	248.1	261.5
77.5°	110.0	136.8	178.4	199.8	214.6
80°	81.8	104.6	134.1	150.2	155.6
82.5°	56.3	75.1	93.9	97.9	100.6
85°	34.9	44.3	51.0	49.6	49.6
87.5°	16.1	17.4	14.8	10.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)