

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: P230566

Luminaire Tested: **22CZ-LD5-32SE-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230566
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-L940-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (56) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2826.0 lumens
Efficiency: N/A
Efficacy: 92.7 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

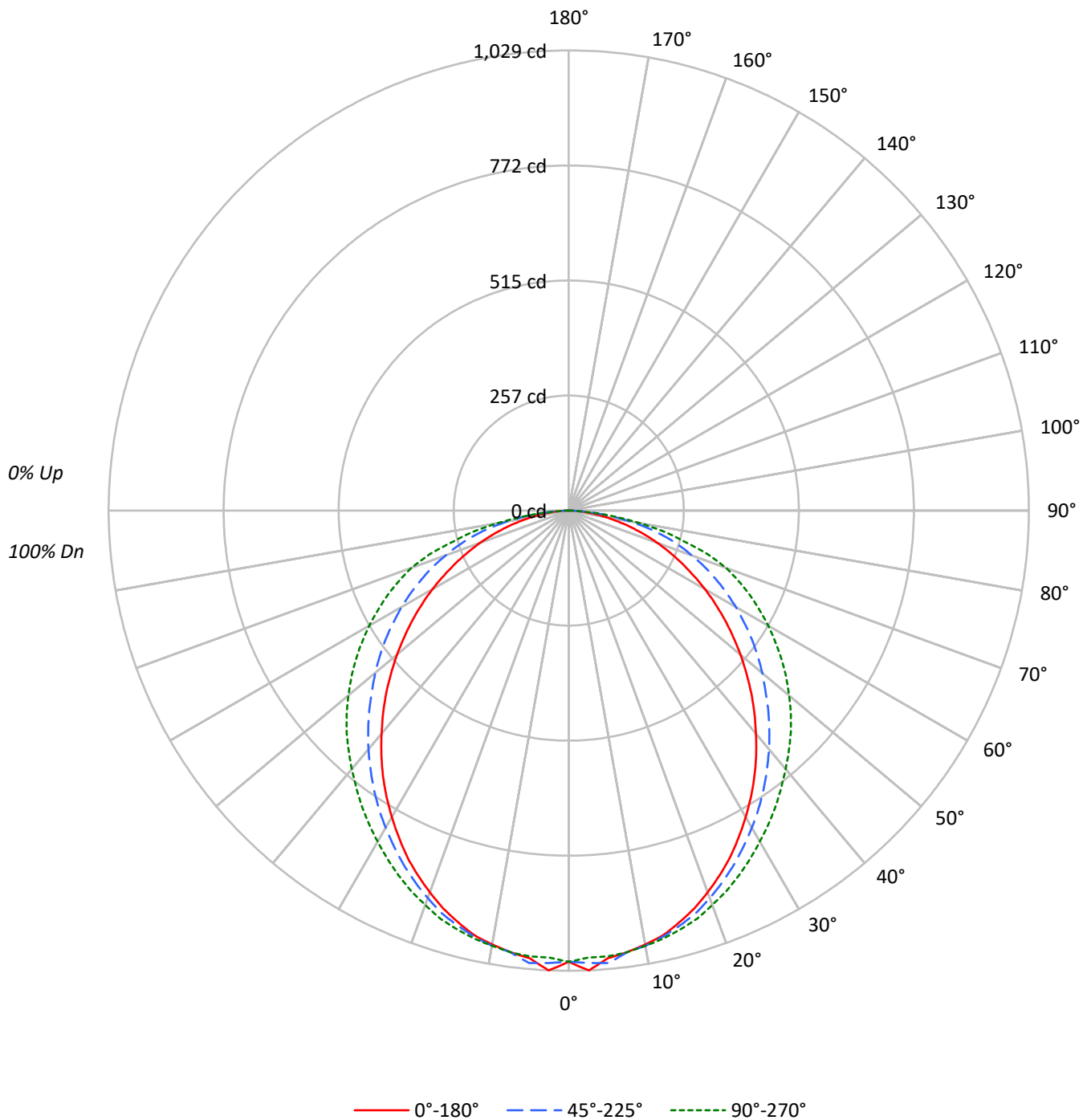
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2714	2714	2714
5°	2714	2743	2702
10°	2692	2700	2700
15°	2657	2676	2699
20°	2601	2641	2688
25°	2538	2595	2673
30°	2460	2545	2656
35°	2379	2497	2650
40°	2288	2447	2650
45°	2197	2401	2672
50°	2100	2364	2692
55°	1999	2341	2727
60°	1893	2322	2773
65°	1777	2310	2844
70°	1655	2303	2941
75°	1500	2301	2786
80°	1299	2129	2470
85°	1102	1612	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	3.4
10°-20°	271.0	9.6
20°-30°	403.1	14.3
30°-40°	476.8	16.9
40°-50°	490.1	17.3
50°-60°	447.8	15.8
60°-70°	358.2	12.7
70°-80°	224.8	8.0
80°-90°	58.5	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°	769.8	27.2
0°-40°	1246.6	44.1
0°-60°	2184.4	77.3
0°-90°	2826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1009	1009	1009	1009	1009	
5°	1005	1005	1016	1009	1000	96
15°	954	955	961	966	969	269
25°	855	860	874	889	900	393
35°	724	734	760	789	807	453
45°	577	592	631	678	702	445
55°	426	447	499	554	581	381
65°	279	304	363	418	447	277
75°	144	172	221	254	268	153
85°	36	45	52	51	51	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1008.7	1008.7	1008.7	1008.7	1008.7
2.5°	1029.3	1025.2	1012.8	1004.6	1000.4
5°	1004.6	1004.6	1015.6	1008.7	1000.4
7.5°	996.3	996.3	996.3	1016.9	996.3
10°	985.3	986.7	988.1	996.3	988.1
12.5°	973.0	973.0	975.7	978.5	979.8
15°	953.7	955.1	960.6	966.1	968.8
17.5°	933.1	937.2	944.1	951.0	956.5
20°	908.4	913.9	922.1	933.1	938.6
22.5°	882.3	887.8	898.8	911.1	920.7
25°	854.8	860.3	874.0	889.1	900.1
27.5°	823.2	830.0	846.5	867.1	878.1
30°	791.6	799.8	819.0	842.4	854.8
32.5°	758.6	768.2	790.2	816.3	831.4
35°	724.2	733.8	760.0	788.8	806.7
37.5°	688.5	699.5	728.3	761.3	780.6
40°	651.4	663.8	696.7	732.5	754.5
42.5°	614.3	628.0	663.8	706.4	728.3
45°	577.2	592.3	630.8	677.5	702.2
47.5°	538.7	556.6	596.4	648.6	673.4
50°	501.6	519.5	564.8	618.4	643.1
52.5°	463.1	483.7	531.8	586.8	612.9
55°	426.0	446.6	498.9	553.8	581.3
57.5°	388.9	409.5	464.5	520.8	548.3
60°	351.8	373.8	431.5	486.5	515.3
62.5°	314.7	338.1	397.2	453.5	481.0
65°	279.0	303.7	362.8	417.8	446.6
67.5°	244.6	270.7	328.4	382.0	410.9
70°	210.3	236.4	292.7	344.9	373.8
72.5°	177.3	203.4	258.4	305.1	327.1
75°	144.3	171.8	221.3	254.2	268.0
77.5°	112.7	140.2	182.8	204.8	219.9
80°	83.8	107.2	137.4	153.9	159.4
82.5°	57.7	77.0	96.2	100.3	103.1
85°	35.7	45.4	52.2	50.8	50.8
87.5°	16.5	17.9	15.1	11.0	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)