

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: P230543

Luminaire Tested: **22CZ-LD5-29-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230543
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-LD5-29-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2783.0 lumens
Efficiency: N/A
Efficacy: 118.4 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

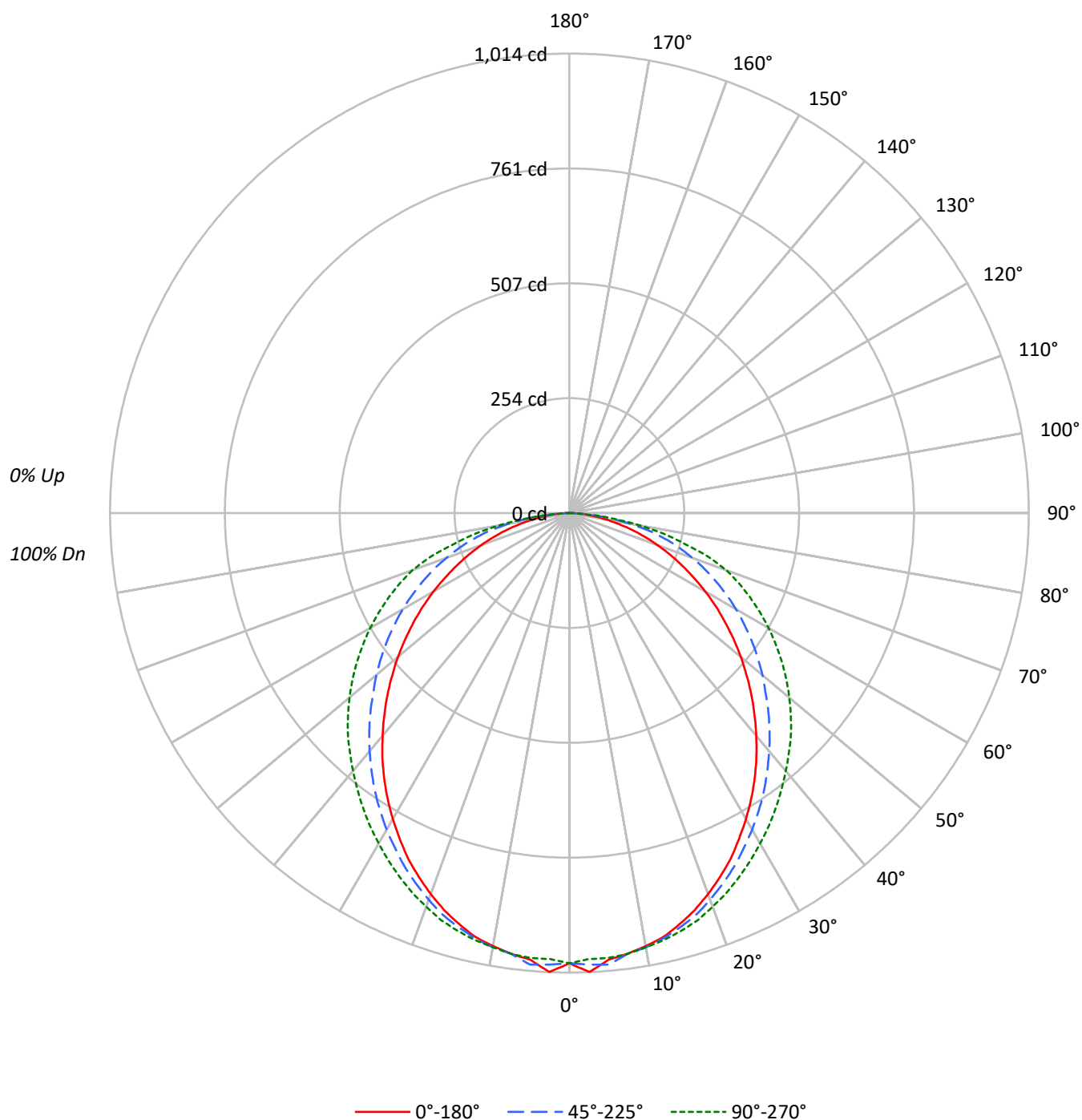
Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2673	2673	2673
5°	2672	2702	2661
10°	2651	2659	2659
15°	2617	2635	2658
20°	2562	2601	2647
25°	2499	2556	2632
30°	2422	2506	2616
35°	2343	2459	2610
40°	2253	2410	2610
45°	2163	2364	2632
50°	2068	2328	2652
55°	1968	2305	2686
60°	1865	2287	2731
65°	1749	2275	2800
70°	1629	2268	2896
75°	1477	2266	2744
80°	1280	2097	2433
85°	1087	1587	1547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	3.4
10°-20°	266.9	9.6
20°-30°	397.0	14.3
30°-40°	469.5	16.9
40°-50°	482.6	17.3
50°-60°	441.0	15.8
60°-70°	352.8	12.7
70°-80°	221.4	8.0
80°-90°	57.7	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°	758.1	27.2
0°-40°	1227.6	44.1
0°-60°	2151.2	77.3
0°-90°	2783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	989	989	1000	993	985	94
15°	939	941	946	951	954	265
25°	842	847	861	876	886	387
35°	713	723	748	777	794	446
45°	568	583	621	667	692	438
55°	420	440	491	545	572	375
65°	275	299	357	411	440	273
75°	142	169	218	250	264	151
85°	35	45	51	50	50	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.3	993.3	993.3	993.3	993.3
2.5°	1013.6	1009.6	997.4	989.3	985.2
5°	989.3	989.3	1000.1	993.3	985.2
7.5°	981.2	981.2	981.2	1001.5	981.2
10°	970.3	971.7	973.0	981.2	973.0
12.5°	958.2	958.2	960.9	963.6	964.9
15°	939.2	940.6	946.0	951.4	954.1
17.5°	918.9	923.0	929.7	936.5	941.9
20°	894.6	900.0	908.1	918.9	924.3
22.5°	868.8	874.3	885.1	897.3	906.7
25°	841.8	847.2	860.7	875.6	886.4
27.5°	810.6	817.4	833.7	854.0	864.8
30°	779.5	787.6	806.6	829.6	841.8
32.5°	747.0	756.5	778.2	803.9	818.8
35°	713.2	722.7	748.4	776.8	794.4
37.5°	678.0	688.8	717.3	749.7	768.7
40°	641.5	653.7	686.1	721.3	743.0
42.5°	604.9	618.5	653.7	695.6	717.3
45°	568.4	583.3	621.2	667.2	691.6
47.5°	530.5	548.1	587.3	638.8	663.1
50°	494.0	511.6	556.2	609.0	633.4
52.5°	456.1	476.4	523.7	577.9	603.6
55°	419.5	439.8	491.3	545.4	572.5
57.5°	383.0	403.3	457.4	512.9	540.0
60°	346.5	368.1	424.9	479.1	507.5
62.5°	309.9	332.9	391.1	446.6	473.7
65°	274.7	299.1	357.3	411.4	439.8
67.5°	240.9	266.6	323.4	376.2	404.6
70°	207.1	232.8	288.3	339.7	368.1
72.5°	174.6	200.3	254.4	300.4	322.1
75°	142.1	169.2	217.9	250.4	263.9
77.5°	111.0	138.0	180.0	201.6	216.5
80°	82.6	105.6	135.3	151.6	157.0
82.5°	56.8	75.8	94.7	98.8	101.5
85°	35.2	44.7	51.4	50.1	50.1
87.5°	16.2	17.6	14.9	10.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)