

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: P230915

Luminaire Tested: **14CZ-LD5-25-S-UNV-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P230915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-25-S-UNV-L950-CD1-U  
Description: CRUZE 1x4 LED TROFFER  
WITH SMOOTH LENS  
Light Source: (84) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2452.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

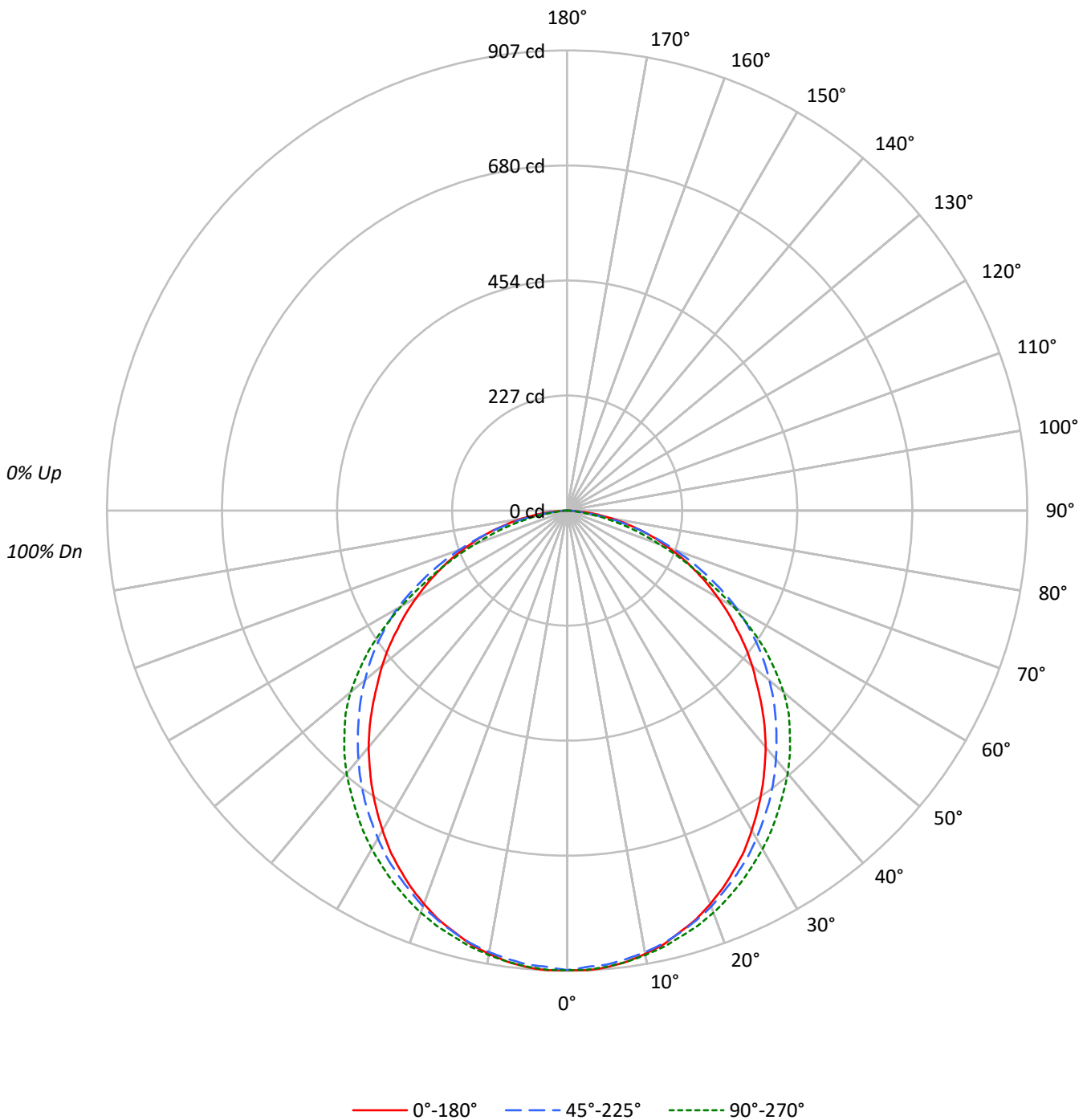
Input Watts (W): 20.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2437	2437	2437
5°	2441	2426	2438
10°	2424	2415	2430
15°	2396	2399	2420
20°	2362	2378	2416
25°	2316	2349	2404
30°	2261	2319	2394
35°	2200	2286	2380
40°	2138	2249	2376
45°	2062	2212	2362
50°	1994	2177	2333
55°	1917	2143	2230
60°	1847	2082	2034
65°	1767	1948	1788
70°	1668	1771	1513
75°	1556	1534	1250
80°	1371	1185	914
85°	1081	574	506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.6	3.5
10°-20°	243.8	9.9
20°-30°	365.9	14.9
30°-40°	436.2	17.8
40°-50°	449.3	18.3
50°-60°	400.4	16.3
60°-70°	288.5	11.8
70°-80°	150.9	6.2
80°-90°	31.2	1.3
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°	695.3	28.4
0°-40°	1131.6	46.1
0°-60°	1981.4	80.8
0°-90°	2452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2452.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	904	901	898	904	902	86
15°	860	861	861	870	869	243
25°	780	784	791	806	810	359
35°	670	678	696	719	724	419
45°	542	554	581	614	621	418
55°	409	422	457	478	475	366
65°	278	287	306	292	281	275
75°	150	157	148	128	120	159
85°	35	31	19	16	16	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	905.8	905.8	905.8	905.8	905.8
2.5°	906.9	904.7	900.3	905.8	905.8
5°	903.6	901.4	898.1	903.6	902.5
7.5°	897.0	894.8	891.6	898.1	897.0
10°	887.2	886.1	883.9	890.5	889.4
12.5°	876.3	875.2	874.1	880.6	880.6
15°	859.9	861.0	861.0	869.7	868.6
17.5°	844.6	845.7	846.8	857.7	857.7
20°	824.9	826.0	830.4	842.4	843.5
22.5°	804.2	805.2	810.7	824.9	827.1
25°	780.1	784.5	791.0	806.3	809.6
27.5°	756.1	759.4	770.3	787.8	790.0
30°	727.7	734.2	746.2	765.9	770.3
32.5°	699.3	706.9	721.1	743.0	748.4
35°	669.8	678.5	696.0	718.9	724.4
37.5°	639.2	646.8	668.7	692.7	700.4
40°	608.6	616.2	640.3	667.6	676.3
42.5°	575.8	586.7	610.8	641.4	650.1
45°	541.9	554.0	581.3	614.0	620.6
47.5°	507.0	520.1	551.8	584.5	592.2
50°	476.4	488.4	520.1	551.8	557.2
52.5°	443.6	454.5	489.5	515.7	516.8
55°	408.6	421.7	456.7	477.5	475.3
57.5°	376.9	387.9	421.7	432.7	426.1
60°	343.1	352.9	386.8	387.9	378.0
62.5°	310.3	320.1	346.4	338.7	326.7
65°	277.5	287.4	305.9	291.7	280.8
67.5°	245.8	254.6	265.5	246.9	236.0
70°	212.0	224.0	225.1	203.2	192.3
72.5°	182.5	189.0	186.8	166.1	156.2
75°	149.7	157.3	147.5	127.8	120.2
77.5°	119.1	124.6	111.4	92.9	87.4
80°	88.5	91.8	76.5	62.3	59.0
82.5°	60.1	60.1	43.7	33.9	30.6
85°	35.0	30.6	18.6	16.4	16.4
87.5°	12.0	7.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)