

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: P258663

Luminaire Tested: **14CZ-LD5-25-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-25-UNV-L92765-W2A1-U-4500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2229.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

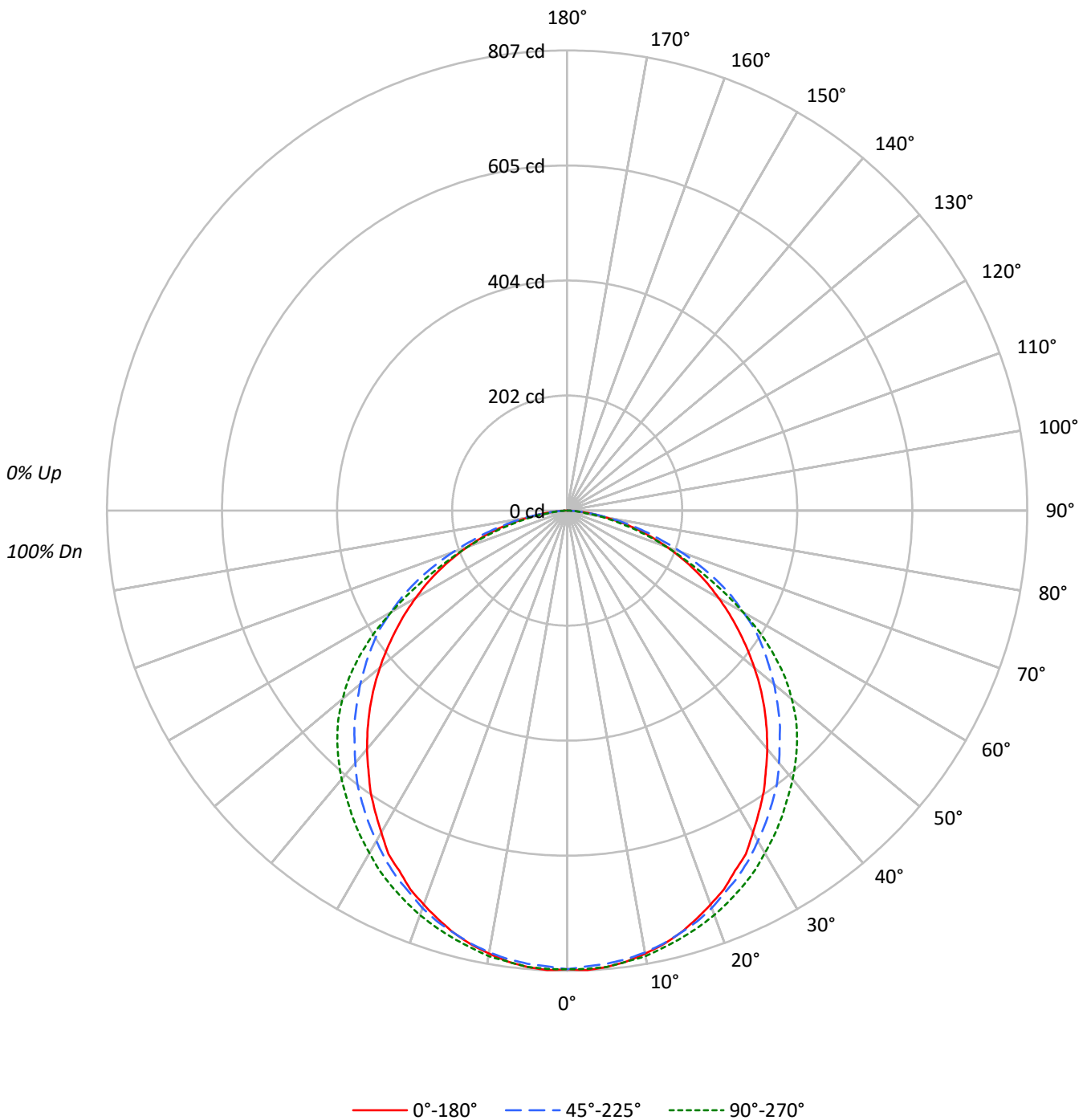
Input Watts (W): 18.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	2165	2165	2165
5°	2170	2155	2170
10°	2156	2150	2168
15°	2137	2137	2161
20°	2105	2124	2162
25°	2069	2105	2160
30°	2025	2079	2155
35°	1975	2058	2155
40°	1918	2030	2162
45°	1861	2007	2170
50°	1794	1983	2153
55°	1722	1964	2083
60°	1650	1922	1916
65°	1574	1840	1679
70°	1461	1677	1452
75°	1326	1463	1200
80°	1055	1158	885
85°	747	645	509



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	3.4
10°-20°	217.4	9.8
20°-30°	327.8	14.7
30°-40°	392.9	17.6
40°-50°	407.8	18.3
50°-60°	367.8	16.5
60°-70°	268.3	12.0
70°-80°	140.8	6.3
80°-90°	30.0	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°	621.4	27.9
0°-40°	1014.3	45.5
0°-60°	1789.9	80.3
0°-90°	2229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2229.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	803	801	798	803	803	76
15°	767	767	767	776	776	216
25°	697	700	709	724	728	321
35°	601	608	626	649	656	375
45°	489	499	528	559	570	377
55°	367	380	419	446	444	329
65°	247	262	289	278	264	244
75°	128	145	141	122	115	134
85°	24	30	21	18	16	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	804.4	804.4	804.4	804.4	804.4
2.5°	806.6	804.4	800.0	804.4	804.4
5°	803.3	801.1	797.8	803.3	803.3
7.5°	797.8	795.6	793.4	798.9	797.8
10°	789.0	787.9	786.8	793.4	793.4
12.5°	779.1	779.1	778.0	785.7	784.6
15°	767.0	767.0	767.0	775.8	775.8
17.5°	751.6	753.8	756.0	765.9	765.9
20°	735.2	737.4	741.7	753.8	754.9
22.5°	718.7	719.8	724.2	738.5	741.7
25°	696.7	700.0	708.8	724.2	727.5
27.5°	679.1	680.2	690.1	707.7	712.1
30°	651.6	659.3	669.2	689.0	693.4
32.5°	626.4	633.0	648.3	669.2	675.8
35°	601.1	607.7	626.4	649.4	656.0
37.5°	572.5	582.4	604.4	627.5	635.2
40°	546.1	554.9	578.0	606.6	615.4
42.5°	517.6	526.4	551.6	583.5	593.4
45°	489.0	498.9	527.5	559.3	570.3
47.5°	459.3	470.3	500.0	535.2	545.0
50°	428.6	440.7	473.6	509.9	514.3
52.5°	397.8	411.0	446.1	478.0	482.4
55°	367.0	380.2	418.7	446.1	443.9
57.5°	337.4	351.6	391.2	405.5	403.3
60°	306.6	322.0	357.1	363.7	356.0
62.5°	278.0	292.3	325.3	319.8	309.9
65°	247.2	261.5	289.0	278.0	263.7
67.5°	216.5	234.1	251.6	233.0	222.0
70°	185.7	205.5	213.2	194.5	184.6
72.5°	156.0	176.9	174.7	156.0	149.4
75°	127.5	145.1	140.7	122.0	115.4
77.5°	96.7	116.5	106.6	91.2	85.7
80°	68.1	85.7	74.7	61.5	57.1
82.5°	45.1	57.1	46.2	36.3	33.0
85°	24.2	29.7	20.9	17.6	16.5
87.5°	9.9	8.8	7.7	7.7	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)