

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: P275459

Luminaire Tested: **14CZ2-25-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275459  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-UNV-L82765-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2369.0 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

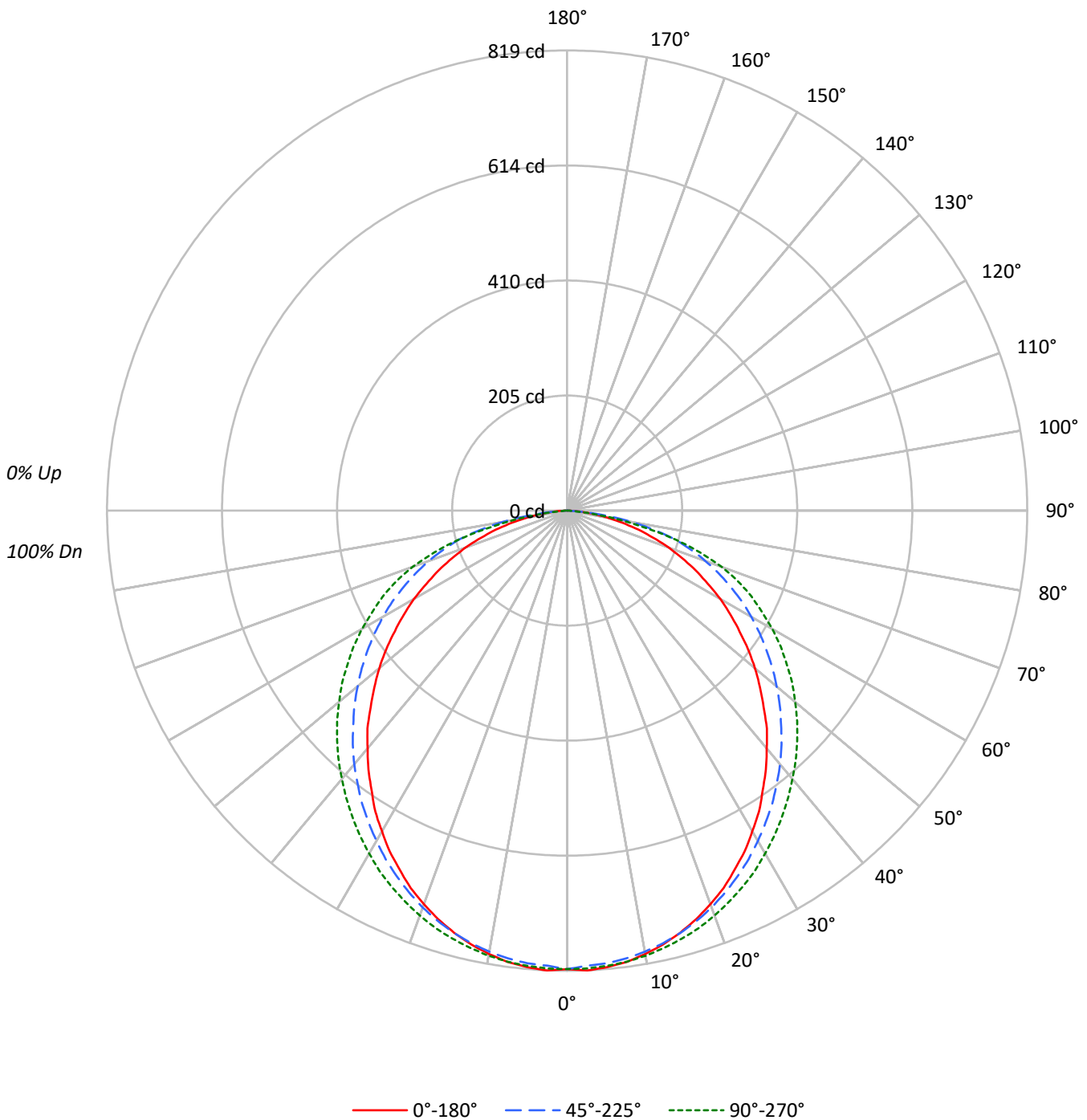
Input Watts (W): 18.321  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

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

	0°	45°	90°
0°	2196	2196	2196
5°	2203	2185	2197
10°	2190	2178	2198
15°	2166	2168	2197
20°	2134	2153	2196
25°	2094	2132	2194
30°	2048	2109	2190
35°	1994	2091	2188
40°	1941	2071	2191
45°	1881	2049	2203
50°	1827	2039	2218
55°	1757	2032	2238
60°	1694	2035	2268
65°	1608	2041	2304
70°	1509	2057	2302
75°	1367	2076	2082
80°	1122	1793	1481
85°	831	849	343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.2	3.3
10°-20°	220.6	9.3
20°-30°	332.3	14.0
30°-40°	398.8	16.8
40°-50°	415.7	17.5
50°-60°	384.8	16.2
60°-70°	310.9	13.1
70°-80°	189.6	8.0
80°-90°	39.1	1.7
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°	630.2	26.6
0°-40°	1029.0	43.4
0°-60°	1829.4	77.2
0°-90°	2369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2369.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	816	814	809	814	814	77
15°	778	778	778	789	789	219
25°	705	709	718	736	739	325
35°	607	616	636	660	666	380
45°	494	509	538	568	579	382
55°	374	394	433	467	477	336
65°	252	277	321	353	362	250
75°	132	161	200	203	200	138
85°	27	40	28	15	11	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	816.1	816.1	816.1	816.1	816.1
2.5°	819.3	816.7	810.8	816.7	815.6
5°	815.6	813.5	808.7	814.5	813.5
7.5°	810.3	808.2	804.0	810.8	809.8
10°	801.3	800.3	797.1	805.0	804.5
12.5°	790.8	790.2	788.7	797.6	797.1
15°	777.6	778.1	778.1	788.7	788.7
17.5°	762.8	763.8	765.9	777.6	779.2
20°	745.3	747.5	751.7	764.9	767.0
22.5°	727.4	729.0	735.3	751.2	753.3
25°	705.2	709.4	717.9	735.8	739.0
27.5°	684.1	687.8	699.4	717.9	723.2
30°	659.2	665.1	678.8	698.9	704.7
32.5°	635.5	641.8	657.7	680.9	686.2
35°	606.9	616.5	636.5	659.8	666.1
37.5°	581.1	590.0	612.8	638.1	645.5
40°	552.5	563.6	589.5	616.5	623.8
42.5°	526.1	536.7	564.7	592.2	602.2
45°	494.4	509.2	538.3	568.4	578.9
47.5°	465.4	480.2	513.4	545.7	555.2
50°	436.3	452.2	487.0	520.3	529.8
52.5°	406.2	423.1	460.6	493.9	505.0
55°	374.5	394.1	433.2	467.0	477.0
57.5°	344.4	364.5	406.2	440.6	450.6
60°	314.8	335.4	378.2	411.0	421.5
62.5°	282.1	306.4	350.8	383.0	390.9
65°	252.5	277.3	320.6	352.9	361.8
67.5°	221.3	248.3	291.6	321.2	329.6
70°	191.8	219.7	261.5	288.9	292.6
72.5°	160.1	188.6	230.8	248.3	248.3
75°	131.5	160.6	199.7	202.8	200.2
77.5°	100.4	132.6	157.9	151.6	145.3
80°	72.4	104.1	115.7	104.1	95.6
82.5°	48.6	75.5	69.7	55.5	49.1
85°	26.9	40.1	27.5	15.3	11.1
87.5°	10.0	9.0	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)