

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: P277228

Luminaire Tested: **22CZ2-24HE-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277228  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-24HE-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2368.0 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

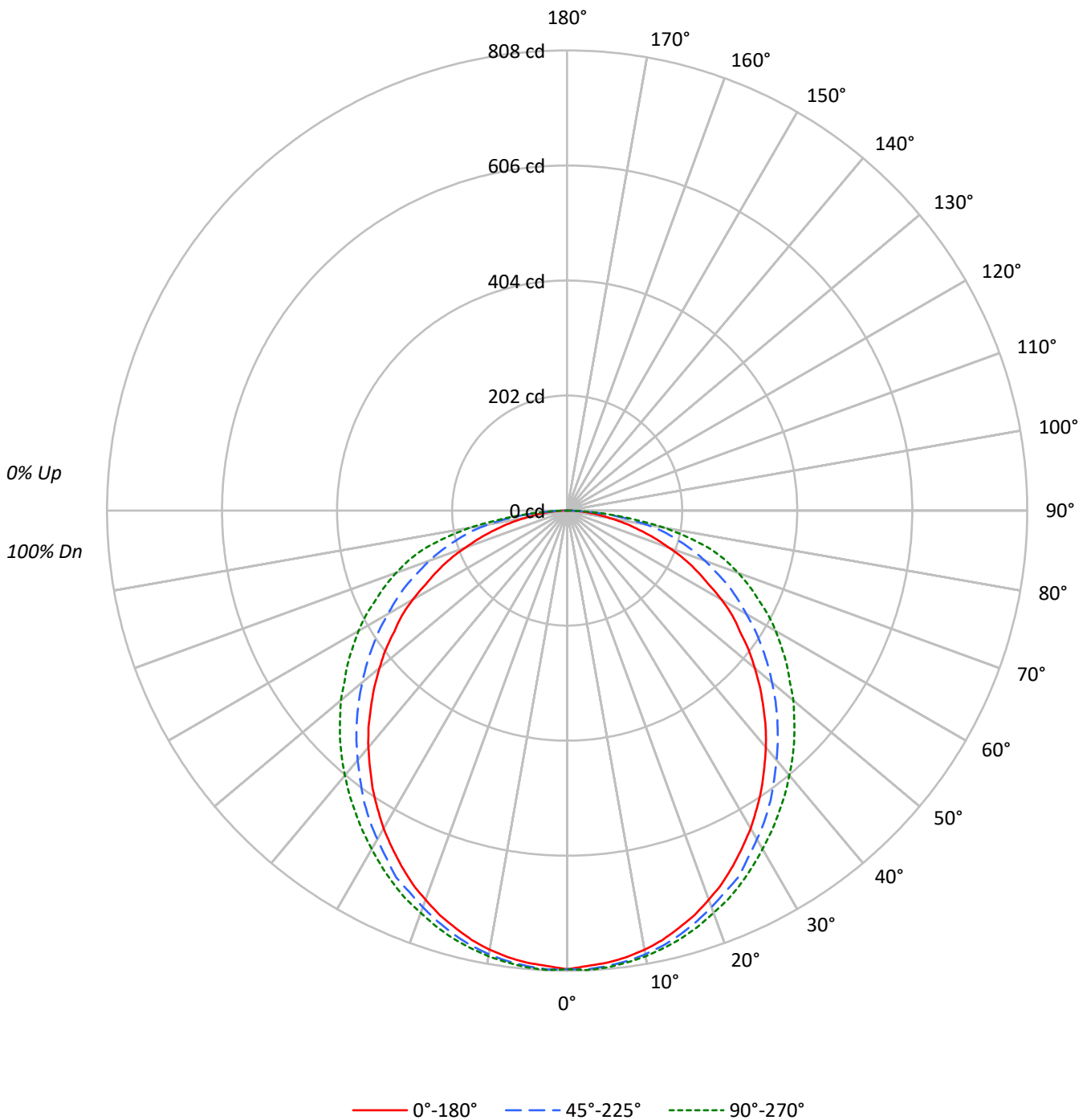
Input Watts (W): 18.042  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	2167	2167	2167
5°	2153	2169	2175
10°	2140	2162	2172
15°	2113	2146	2165
20°	2082	2122	2152
25°	2045	2110	2145
30°	2002	2071	2133
35°	1956	2044	2128
40°	1907	2010	2133
45°	1854	1987	2146
50°	1800	1966	2171
55°	1738	1957	2208
60°	1687	1956	2277
65°	1603	1989	2359
70°	1494	2026	2512
75°	1369	2096	2714
80°	1192	2185	2673
85°	1044	1942	2121



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	3.2
10°-20°	216.9	9.2
20°-30°	325.6	13.7
30°-40°	389.1	16.4
40°-50°	404.6	17.1
50°-60°	375.0	15.8
60°-70°	307.6	13.0
70°-80°	207.9	8.8
80°-90°	65.3	2.8
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°	618.6	26.1
0°-40°	1007.7	42.6
0°-60°	1787.2	75.5
0°-90°	2368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	797	798	803	804	805	76
15°	759	762	770	775	777	214
25°	689	694	711	719	722	317
35°	595	604	622	641	648	372
45°	487	496	522	552	564	376
55°	370	382	417	454	471	333
65°	252	266	312	353	370	249
75°	132	154	202	242	261	140
85°	34	47	63	70	69	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	805.2	805.2	805.2	805.2	805.2
2.5°	800.5	802.8	806.3	807.5	807.5
5°	797.0	798.2	802.8	804.0	805.2
7.5°	791.2	793.5	798.2	799.3	800.5
10°	783.0	785.4	791.2	793.5	794.7
12.5°	772.5	774.9	781.9	785.4	786.5
15°	758.6	762.1	770.2	774.9	777.2
17.5°	744.6	748.1	756.2	763.2	765.5
20°	727.1	735.3	741.1	750.4	751.6
22.5°	709.6	714.3	724.8	734.1	738.7
25°	688.6	694.5	710.8	718.9	722.4
27.5°	666.5	674.7	687.5	700.3	705.0
30°	644.4	650.2	666.5	681.7	686.3
32.5°	619.9	628.1	645.5	660.7	667.7
35°	595.4	603.6	622.2	640.9	647.9
37.5°	568.6	577.9	596.6	618.7	628.1
40°	543.0	550.0	572.1	598.9	607.1
42.5°	516.2	524.3	547.7	576.8	586.1
45°	487.1	496.4	522.0	552.3	564.0
47.5°	459.1	468.4	496.4	526.7	540.7
50°	430.0	441.6	469.6	504.5	518.5
52.5°	402.0	412.5	443.9	480.1	492.9
55°	370.5	382.2	417.1	454.4	470.7
57.5°	344.9	353.1	391.5	430.0	446.3
60°	313.4	323.9	363.5	404.3	423.0
62.5°	279.7	297.1	337.9	379.9	398.5
65°	251.7	265.7	312.3	353.1	370.5
67.5°	222.6	237.7	283.1	326.3	346.1
70°	189.9	209.7	257.5	300.6	319.3
72.5°	160.8	181.8	230.7	272.7	292.5
75°	131.7	153.8	201.6	242.4	261.0
77.5°	103.7	128.2	174.8	206.2	217.9
80°	76.9	100.2	141.0	163.1	172.5
82.5°	53.6	73.4	103.7	115.4	117.7
85°	33.8	46.6	62.9	69.9	68.7
87.5°	15.1	18.6	23.3	25.6	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)