

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: P275520

Luminaire Tested: **14CZ2-29-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275520  
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: 14CZ2-29-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2272.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 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

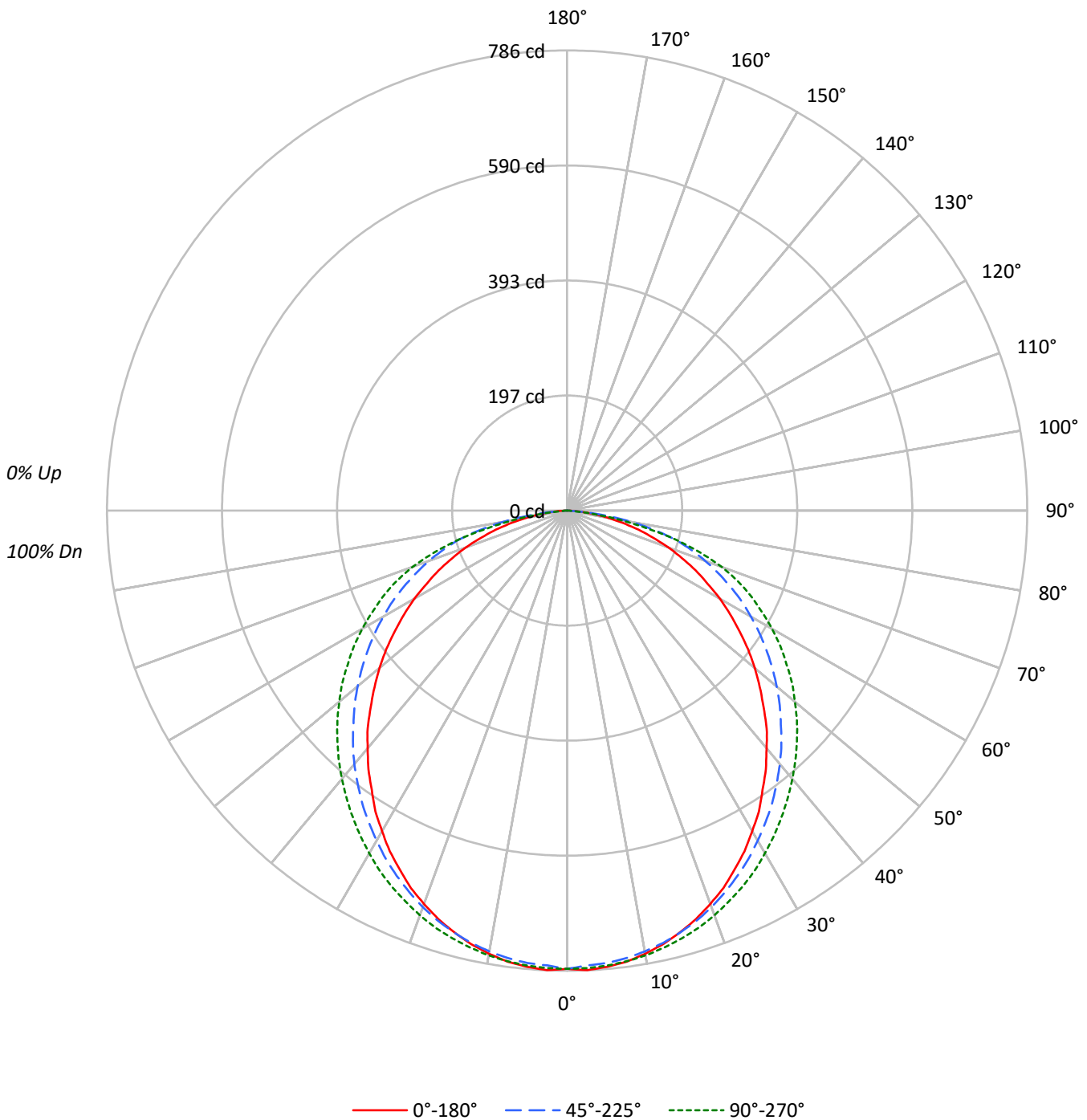
Input Watts (W): 22.041  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2106	2106	2106
5°	2113	2095	2108
10°	2100	2089	2108
15°	2077	2079	2107
20°	2047	2064	2107
25°	2008	2044	2104
30°	1964	2023	2100
35°	1912	2006	2099
40°	1861	1986	2102
45°	1805	1964	2113
50°	1752	1955	2127
55°	1685	1949	2146
60°	1625	1952	2176
65°	1542	1958	2209
70°	1447	1973	2209
75°	1311	1991	1996
80°	1075	1719	1421
85°	797	812	327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.1	3.3
10°-20°	211.6	9.3
20°-30°	318.7	14.0
30°-40°	382.5	16.8
40°-50°	398.6	17.5
50°-60°	369.0	16.2
60°-70°	298.2	13.1
70°-80°	181.8	8.0
80°-90°	37.5	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°	604.4	26.6
0°-40°	986.8	43.4
0°-60°	1754.5	77.2
0°-90°	2272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2272.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	782	780	776	781	780	74
15°	746	746	746	756	756	210
25°	676	680	688	706	709	312
35°	582	591	610	633	639	365
45°	474	488	516	545	555	367
55°	359	378	415	448	458	322
65°	242	266	308	338	347	239
75°	126	154	192	194	192	132
85°	26	38	26	15	11	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	782.7	782.7	782.7	782.7	782.7
2.5°	785.8	783.2	777.6	783.2	782.2
5°	782.2	780.2	775.6	781.2	780.2
7.5°	777.1	775.1	771.1	777.6	776.6
10°	768.5	767.5	764.5	772.1	771.6
12.5°	758.4	757.9	756.4	765.0	764.5
15°	745.7	746.2	746.2	756.4	756.4
17.5°	731.5	732.6	734.6	745.7	747.2
20°	714.8	716.9	720.9	733.6	735.6
22.5°	697.6	699.1	705.2	720.4	722.4
25°	676.3	680.4	688.5	705.7	708.7
27.5°	656.1	659.6	670.8	688.5	693.5
30°	632.2	637.8	651.0	670.2	675.8
32.5°	609.5	615.5	630.7	653.0	658.1
35°	582.1	591.2	610.5	632.8	638.8
37.5°	557.3	565.9	587.7	612.0	619.1
40°	529.9	540.6	565.4	591.2	598.3
42.5°	504.6	514.7	541.6	567.9	577.5
45°	474.2	488.4	516.2	545.1	555.2
47.5°	446.3	460.5	492.4	523.3	532.4
50°	418.5	433.7	467.1	499.0	508.1
52.5°	389.6	405.8	441.8	473.7	484.3
55°	359.2	377.9	415.4	447.8	457.5
57.5°	330.3	349.6	389.6	422.5	432.1
60°	301.9	321.7	362.7	394.1	404.3
62.5°	270.5	293.8	336.4	367.3	374.9
65°	242.2	266.0	307.5	338.4	347.0
67.5°	212.3	238.1	279.6	308.0	316.1
70°	183.9	210.7	250.8	277.1	280.7
72.5°	153.5	180.9	221.4	238.1	238.1
75°	126.1	154.0	191.5	194.5	192.0
77.5°	96.3	127.2	151.5	145.4	139.3
80°	69.4	99.8	110.9	99.8	91.7
82.5°	46.6	72.4	66.9	53.2	47.1
85°	25.8	38.5	26.3	14.7	10.6
87.5°	9.6	8.6	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)