

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: P275430

Luminaire Tested: **14CZ2-29-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275430  
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-L93050-W2A1-U-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2661.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 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

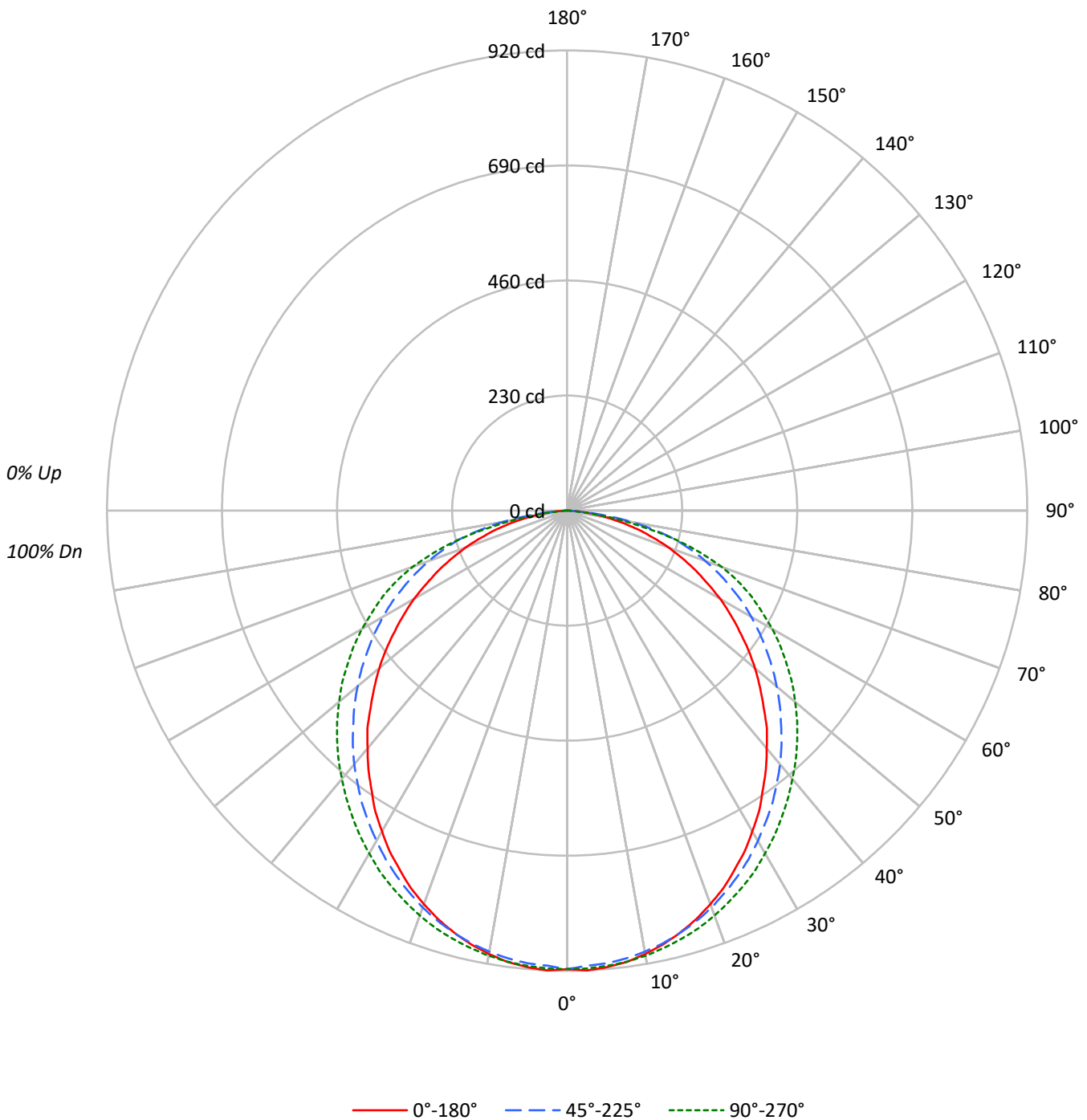
Input Watts (W): 22.692  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2467	2467	2467
5°	2475	2454	2468
10°	2460	2447	2469
15°	2433	2435	2468
20°	2397	2418	2467
25°	2352	2394	2465
30°	2301	2369	2459
35°	2240	2349	2458
40°	2180	2326	2461
45°	2114	2301	2475
50°	2052	2290	2491
55°	1974	2282	2514
60°	1903	2286	2548
65°	1806	2294	2588
70°	1695	2311	2586
75°	1536	2332	2338
80°	1260	2013	1664
85°	936	954	386



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.7	3.3
10°-20°	247.8	9.3
20°-30°	373.3	14.0
30°-40°	447.9	16.8
40°-50°	466.9	17.5
50°-60°	432.2	16.2
60°-70°	349.2	13.1
70°-80°	212.9	8.0
80°-90°	44.0	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°	707.8	26.6
0°-40°	1155.8	43.4
0°-60°	2054.9	77.2
0°-90°	2661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2661.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	916	914	908	915	914	87
15°	873	874	874	886	886	246
25°	792	797	806	826	830	365
35°	682	692	715	741	748	427
45°	555	572	605	638	650	429
55°	421	443	486	524	536	377
65°	284	312	360	396	406	280
75°	148	180	224	228	225	155
85°	30	45	31	17	12	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	916.7	916.7	916.7	916.7	916.7
2.5°	920.3	917.3	910.8	917.3	916.1
5°	916.1	913.8	908.4	914.9	913.8
7.5°	910.2	907.8	903.1	910.8	909.6
10°	900.1	898.9	895.4	904.3	903.7
12.5°	888.2	887.6	885.9	896.0	895.4
15°	873.4	874.0	874.0	885.9	885.9
17.5°	856.8	858.0	860.4	873.4	875.2
20°	837.2	839.6	844.3	859.2	861.5
22.5°	817.0	818.8	825.9	843.7	846.1
25°	792.1	796.9	806.4	826.5	830.1
27.5°	768.4	772.5	785.6	806.4	812.3
30°	740.5	747.0	762.5	785.0	791.5
32.5°	713.8	720.9	738.7	764.8	770.8
35°	681.8	692.4	715.0	741.1	748.2
37.5°	652.7	662.8	688.3	716.8	725.1
40°	620.6	633.1	662.2	692.4	700.7
42.5°	591.0	602.8	634.3	665.1	676.4
45°	555.4	572.0	604.6	638.4	650.3
47.5°	522.7	539.4	576.7	612.9	623.6
50°	490.1	507.9	547.1	584.4	595.1
52.5°	456.3	475.3	517.4	554.8	567.2
55°	420.7	442.6	486.5	524.5	535.8
57.5°	386.9	409.4	456.3	494.9	506.1
60°	353.6	376.8	424.8	461.6	473.5
62.5°	316.8	344.1	394.0	430.2	439.1
65°	283.6	311.5	360.2	396.4	406.4
67.5°	248.6	278.9	327.5	360.8	370.2
70°	215.4	246.8	293.7	324.6	328.7
72.5°	179.8	211.8	259.3	278.9	278.9
75°	147.7	180.4	224.3	227.8	224.9
77.5°	112.7	148.9	177.4	170.3	163.2
80°	81.3	116.9	129.9	116.9	107.4
82.5°	54.6	84.8	78.3	62.3	55.2
85°	30.3	45.1	30.9	17.2	12.5
87.5°	11.3	10.1	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)