

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: P275539

Luminaire Tested: **14CZ2-39-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275539  
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: 14CZ2-39-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3134.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

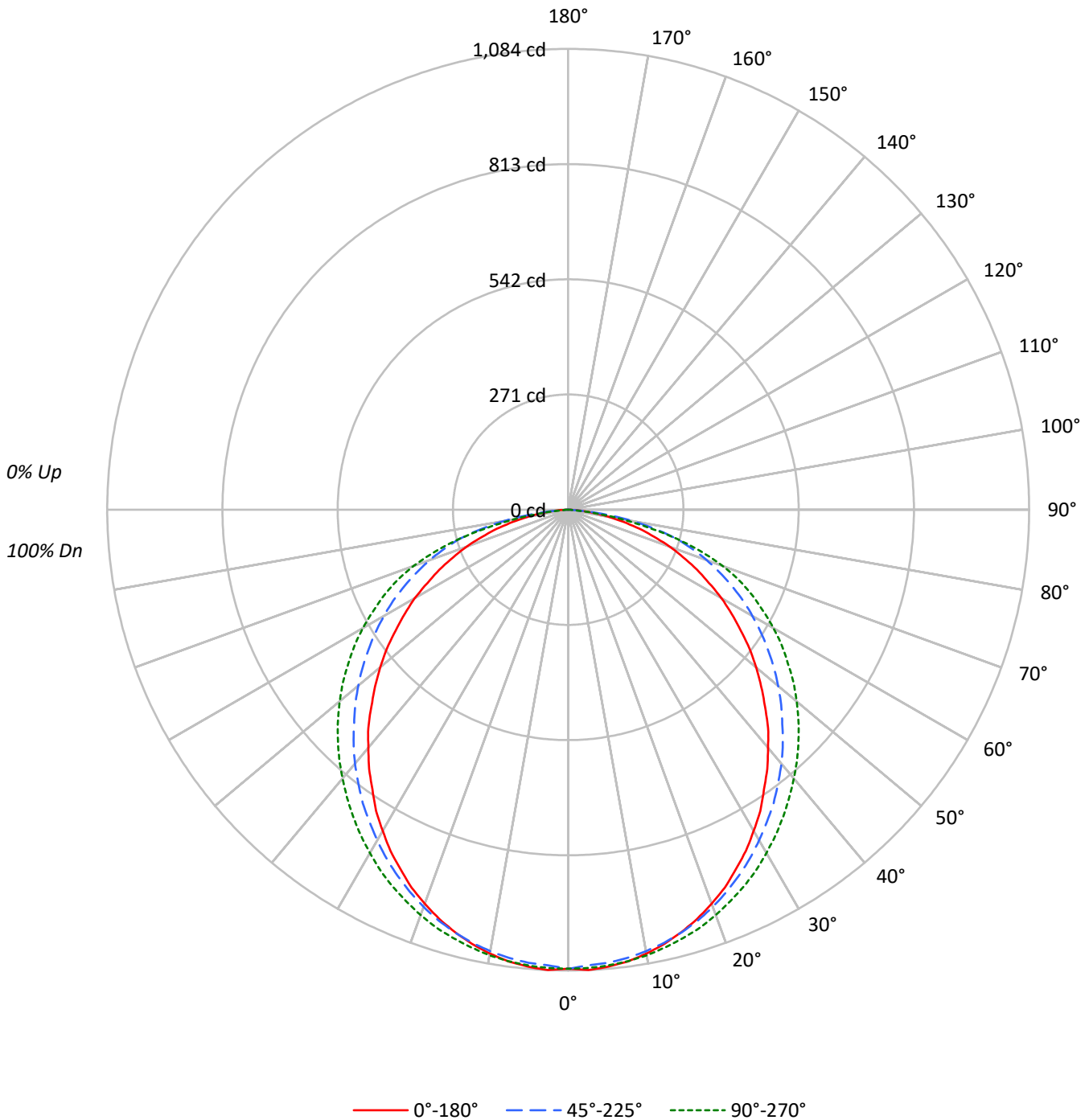
Input Watts (W): 30.69  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2905	2905	2905
5°	2915	2890	2907
10°	2897	2881	2908
15°	2866	2868	2907
20°	2824	2848	2906
25°	2770	2820	2903
30°	2710	2790	2897
35°	2638	2766	2895
40°	2568	2740	2899
45°	2489	2710	2915
50°	2416	2697	2934
55°	2325	2688	2960
60°	2242	2693	3002
65°	2127	2701	3048
70°	1996	2722	3046
75°	1809	2747	2754
80°	1483	2371	1960
85°	1099	1121	454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.2	3.3
10°-20°	291.8	9.3
20°-30°	439.6	14.0
30°-40°	527.6	16.8
40°-50°	549.9	17.5
50°-60°	509.1	16.2
60°-70°	411.3	13.1
70°-80°	250.8	8.0
80°-90°	51.8	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°	833.7	26.6
0°-40°	1361.2	43.4
0°-60°	2420.2	77.2
0°-90°	3134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3134.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1079	1076	1070	1078	1076	102
15°	1029	1029	1029	1043	1043	290
25°	933	938	950	974	978	430
35°	803	816	842	873	881	503
45°	654	674	712	752	766	506
55°	496	521	573	618	631	444
65°	334	367	424	467	479	330
75°	174	212	264	268	265	183
85°	36	53	36	20	15	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1079.7	1079.7	1079.7	1079.7	1079.7
2.5°	1083.9	1080.4	1072.7	1080.4	1079.0
5°	1079.0	1076.2	1069.9	1077.6	1076.2
7.5°	1072.0	1069.2	1063.6	1072.7	1071.3
10°	1060.1	1058.7	1054.5	1065.0	1064.3
12.5°	1046.1	1045.4	1043.3	1055.2	1054.5
15°	1028.7	1029.4	1029.4	1043.3	1043.3
17.5°	1009.1	1010.5	1013.3	1028.7	1030.8
20°	986.0	988.8	994.4	1011.9	1014.7
22.5°	962.3	964.4	972.8	993.7	996.5
25°	932.9	938.5	949.7	973.5	977.6
27.5°	905.0	909.9	925.2	949.7	956.7
30°	872.1	879.8	898.0	924.5	932.2
32.5°	840.7	849.1	870.0	900.8	907.8
35°	802.9	815.5	842.1	872.8	881.2
37.5°	768.7	780.6	810.6	844.2	854.0
40°	731.0	745.6	779.9	815.5	825.3
42.5°	696.0	710.0	747.0	783.4	796.7
45°	654.1	673.7	712.1	751.9	765.9
47.5°	615.7	635.2	679.3	721.9	734.5
50°	577.2	598.2	644.3	688.3	700.9
52.5°	537.4	559.8	609.4	653.4	668.1
55°	495.5	521.3	573.0	617.8	631.0
57.5°	455.6	482.2	537.4	582.8	596.1
60°	416.5	443.7	500.4	543.7	557.7
62.5°	373.2	405.3	464.0	506.6	517.1
65°	334.0	366.9	424.2	466.8	478.7
67.5°	292.8	328.4	385.7	424.9	436.1
70°	253.7	290.7	345.9	382.3	387.1
72.5°	211.7	249.5	305.4	328.4	328.4
75°	174.0	212.4	264.2	268.3	264.9
77.5°	132.8	175.4	208.9	200.6	192.2
80°	95.7	137.7	153.0	137.7	126.5
82.5°	64.3	99.9	92.2	73.4	65.0
85°	35.6	53.1	36.3	20.3	14.7
87.5°	13.3	11.9	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)