

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: P260485

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-39-RDP-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2989.0 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

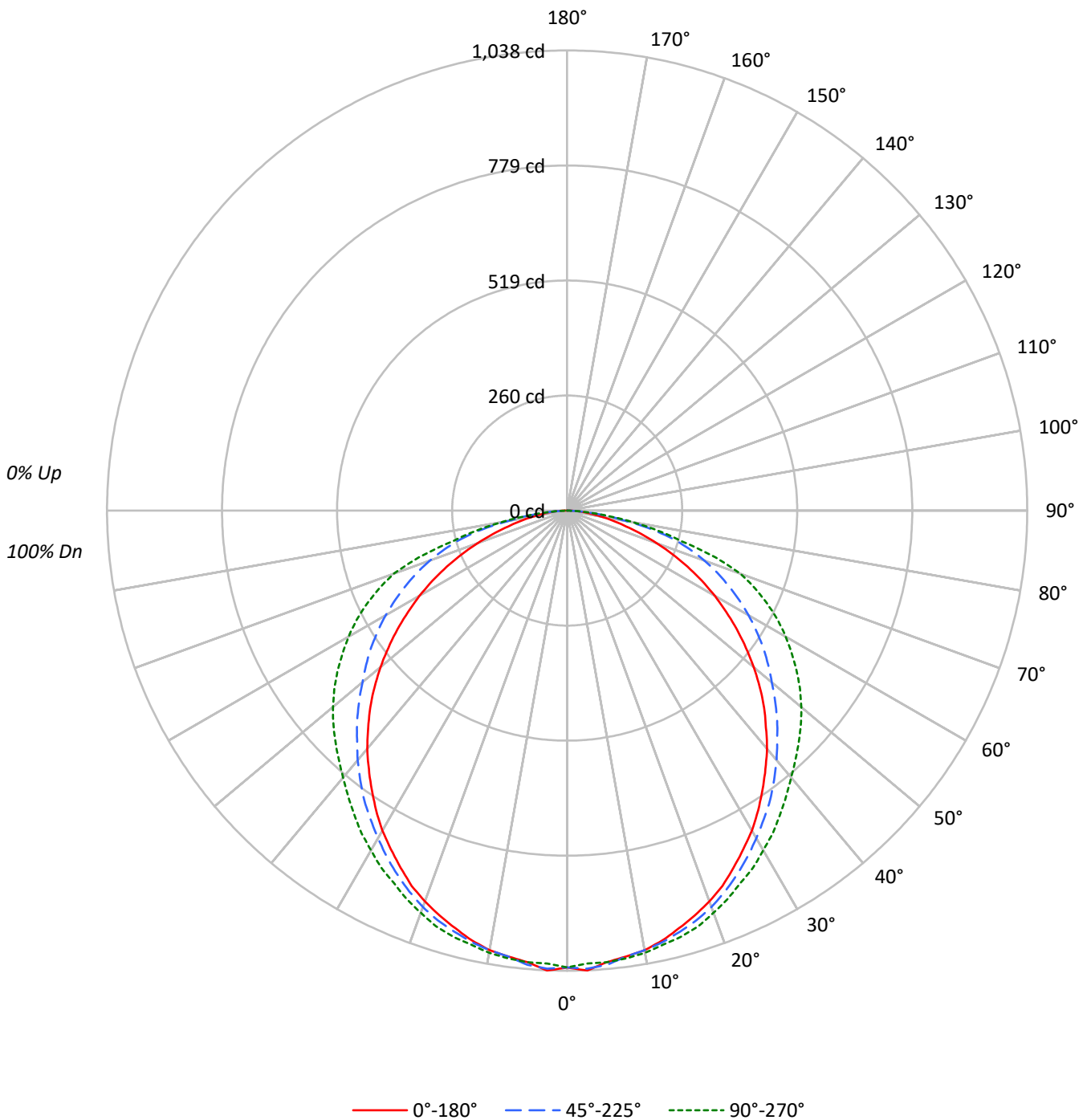
Input Watts (W): 30.876  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	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	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

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

	0°	45°	90°
0°	2773	2773	2773
5°	2762	2778	2762
10°	2751	2751	2767
15°	2717	2739	2772
20°	2686	2725	2765
25°	2638	2691	2750
30°	2590	2651	2749
35°	2524	2621	2751
40°	2464	2582	2762
45°	2392	2549	2812
50°	2301	2524	2887
55°	2191	2533	2967
60°	2068	2545	3064
65°	1907	2560	3174
70°	1690	2589	3271
75°	1434	2582	2786
80°	1190	2077	2320
85°	1034	1399	1337



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.4	3.3
10°-20°	277.7	9.3
20°-30°	417.8	14.0
30°-40°	500.7	16.8
40°-50°	522.1	17.5
50°-60°	486.1	16.3
60°-70°	394.7	13.2
70°-80°	237.9	8.0
80°-90°	54.5	1.8
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°	792.9	26.5
0°-40°	1293.6	43.3
0°-60°	2301.9	77.0
0°-90°	2989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1023	1023	1028	1030	1023	97
15°	975	979	983	989	995	275
25°	889	894	906	918	926	410
35°	768	778	798	822	837	481
45°	628	640	670	713	739	484
55°	467	487	540	599	632	418
65°	300	331	402	465	498	296
75°	138	183	248	264	268	149
85°	34	41	45	43	43	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1030.5	1030.5	1030.5	1030.5	1030.5
2.5°	1038.4	1036.4	1034.4	1028.5	1022.6
5°	1022.6	1022.6	1028.5	1030.5	1022.6
7.5°	1014.7	1014.7	1014.7	1022.6	1018.7
10°	1006.9	1006.9	1006.9	1012.8	1012.8
12.5°	993.1	995.0	997.0	999.0	1002.9
15°	975.3	979.3	983.2	989.1	995.0
17.5°	957.6	961.5	969.4	975.3	983.2
20°	937.9	941.8	951.7	957.6	965.5
22.5°	916.2	918.2	930.0	937.9	947.7
25°	888.6	894.5	906.4	918.2	926.1
27.5°	861.0	867.0	880.7	896.5	908.3
30°	833.5	839.4	853.2	872.9	884.7
32.5°	801.9	809.8	825.6	849.2	863.0
35°	768.4	778.3	798.0	821.6	837.4
37.5°	734.9	744.8	766.5	796.0	811.8
40°	701.4	711.3	734.9	766.5	786.2
42.5°	664.0	675.8	701.4	738.9	762.5
45°	628.5	640.4	669.9	713.3	738.9
47.5°	589.1	602.9	636.4	685.7	715.2
50°	549.7	565.5	602.9	658.1	689.6
52.5°	508.4	526.1	571.4	628.5	662.0
55°	467.0	486.7	539.9	599.0	632.5
57.5°	425.6	447.3	506.4	567.5	601.0
60°	384.2	407.9	472.9	535.9	569.4
62.5°	342.8	368.5	437.4	500.5	535.9
65°	299.5	331.0	402.0	465.0	498.5
67.5°	256.1	293.6	366.5	427.6	459.1
70°	214.8	256.1	329.0	386.2	415.7
72.5°	175.4	218.7	289.6	338.9	350.7
75°	137.9	183.2	248.3	264.0	268.0
77.5°	106.4	147.8	197.0	201.0	210.8
80°	76.8	112.3	134.0	145.8	149.7
82.5°	53.2	76.8	88.7	90.6	92.6
85°	33.5	41.4	45.3	43.3	43.3
87.5°	17.7	15.8	13.8	9.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)