

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: P260490

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260490
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-LD5-44-RDP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3074.0 lumens
Efficiency: N/A
Efficacy: 89.6 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

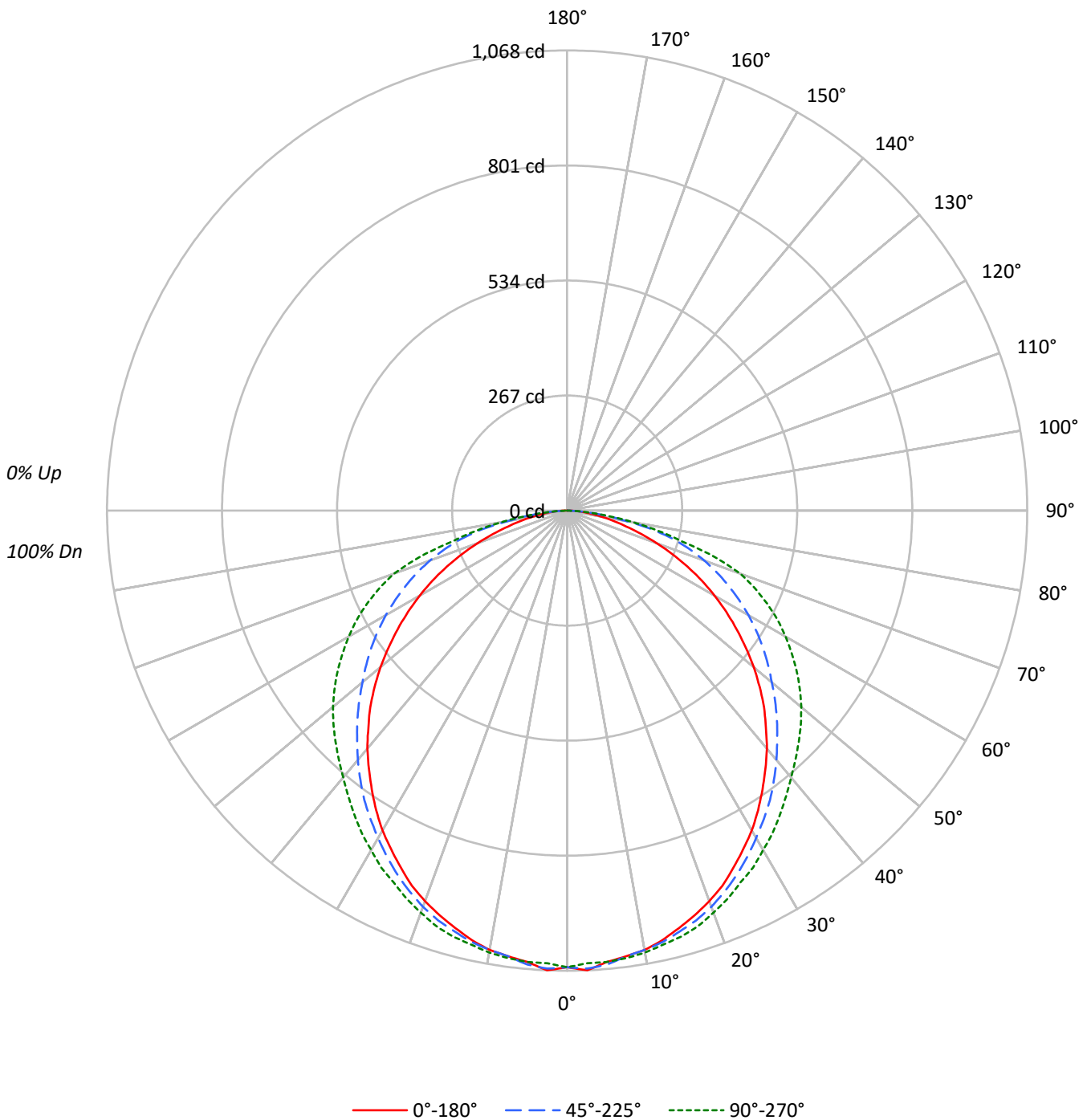
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2852	2852	2852
5°	2841	2857	2841
10°	2829	2829	2846
15°	2795	2817	2851
20°	2762	2803	2843
25°	2714	2768	2828
30°	2664	2726	2827
35°	2596	2696	2829
40°	2534	2655	2840
45°	2460	2622	2892
50°	2367	2596	2969
55°	2253	2605	3052
60°	2126	2617	3152
65°	1961	2632	3265
70°	1738	2662	3364
75°	1474	2654	2865
80°	1224	2135	2386
85°	1062	1439	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.3
10°-20°	285.6	9.3
20°-30°	429.7	14.0
30°-40°	514.9	16.8
40°-50°	537.0	17.5
50°-60°	500.0	16.3
60°-70°	405.9	13.2
70°-80°	244.6	8.0
80°-90°	56.1	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°	815.4	26.5
0°-40°	1330.4	43.3
0°-60°	2367.3	77.0
0°-90°	3074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1052	1052	1058	1060	1052	100
15°	1003	1007	1011	1017	1023	283
25°	914	920	932	944	952	421
35°	790	800	821	845	861	495
45°	646	659	689	734	760	498
55°	480	500	555	616	650	429
65°	308	340	413	478	513	305
75°	142	188	255	272	276	153
85°	34	43	47	45	45	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1067.9	1065.9	1063.9	1057.8	1051.7
5°	1051.7	1051.7	1057.8	1059.8	1051.7
7.5°	1043.6	1043.6	1043.6	1051.7	1047.6
10°	1035.5	1035.5	1035.5	1041.6	1041.6
12.5°	1021.3	1023.3	1025.4	1027.4	1031.4
15°	1003.1	1007.1	1011.2	1017.2	1023.3
17.5°	984.8	988.9	997.0	1003.1	1011.2
20°	964.6	968.6	978.7	984.8	992.9
22.5°	942.3	944.3	956.5	964.6	974.7
25°	913.9	920.0	932.1	944.3	952.4
27.5°	885.5	891.6	905.8	922.0	934.2
30°	857.2	863.2	877.4	897.7	909.8
32.5°	824.7	832.8	849.1	873.4	887.6
35°	790.3	800.4	820.7	845.0	861.2
37.5°	755.8	766.0	788.3	818.7	834.9
40°	721.4	731.5	755.8	788.3	808.5
42.5°	682.9	695.1	721.4	759.9	784.2
45°	646.4	658.6	689.0	733.6	759.9
47.5°	605.9	620.1	654.5	705.2	735.6
50°	565.4	581.6	620.1	676.8	709.2
52.5°	522.8	541.0	587.7	646.4	680.9
55°	480.3	500.5	555.2	616.0	650.5
57.5°	437.7	460.0	520.8	583.6	618.0
60°	395.1	419.5	486.3	551.2	585.6
62.5°	352.6	378.9	449.9	514.7	551.2
65°	308.0	340.4	413.4	478.2	512.7
67.5°	263.4	301.9	376.9	439.7	472.1
70°	220.9	263.4	338.4	397.2	427.6
72.5°	180.3	224.9	297.9	348.5	360.7
75°	141.8	188.5	255.3	271.5	275.6
77.5°	109.4	152.0	202.6	206.7	216.8
80°	79.0	115.5	137.8	150.0	154.0
82.5°	54.7	79.0	91.2	93.2	95.2
85°	34.4	42.6	46.6	44.6	44.6
87.5°	18.2	16.2	14.2	10.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)