

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: P260542

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260542
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-L92765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2754.0 lumens
Efficiency: N/A
Efficacy: 87.4 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

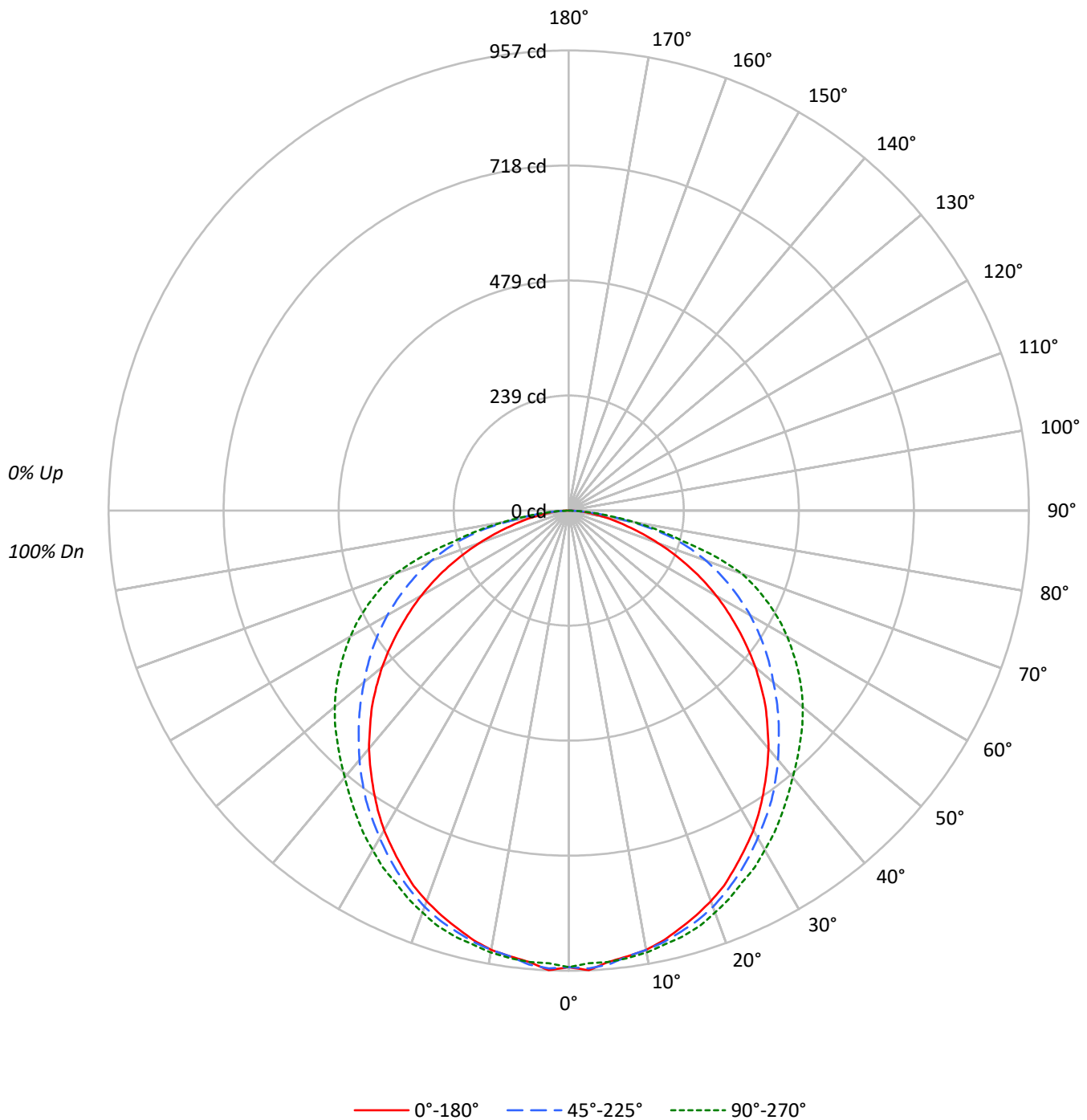
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2555	2555	2555
5°	2545	2560	2545
10°	2535	2535	2550
15°	2503	2524	2554
20°	2475	2511	2548
25°	2431	2480	2534
30°	2386	2443	2533
35°	2326	2416	2535
40°	2270	2379	2545
45°	2204	2349	2591
50°	2120	2326	2660
55°	2019	2334	2734
60°	1905	2345	2824
65°	1757	2358	2925
70°	1557	2386	3014
75°	1321	2378	2567
80°	1097	1912	2139
85°	954	1291	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	3.3
10°-20°	255.9	9.3
20°-30°	385.0	14.0
30°-40°	461.3	16.8
40°-50°	481.1	17.5
50°-60°	447.9	16.3
60°-70°	363.7	13.2
70°-80°	219.2	8.0
80°-90°	50.2	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°	730.5	26.5
0°-40°	1191.9	43.3
0°-60°	2120.9	77.0
0°-90°	2754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	942	942	948	950	942	90
15°	899	902	906	911	917	254
25°	819	824	835	846	853	377
35°	708	717	735	757	772	443
45°	579	590	617	657	681	446
55°	430	448	497	552	583	385
65°	276	305	370	428	459	273
75°	127	169	229	243	247	137
85°	31	38	42	40	40	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.5	949.5	949.5	949.5	949.5
2.5°	956.7	954.9	953.1	947.7	942.2
5°	942.2	942.2	947.7	949.5	942.2
7.5°	935.0	935.0	935.0	942.2	938.6
10°	927.7	927.7	927.7	933.1	933.1
12.5°	915.0	916.8	918.6	920.4	924.1
15°	898.6	902.3	905.9	911.4	916.8
17.5°	882.3	885.9	893.2	898.6	905.9
20°	864.1	867.8	876.9	882.3	889.6
22.5°	844.2	846.0	856.9	864.1	873.2
25°	818.8	824.2	835.1	846.0	853.3
27.5°	793.3	798.8	811.5	826.0	836.9
30°	767.9	773.4	786.1	804.2	815.1
32.5°	738.9	746.1	760.7	782.5	795.2
35°	708.0	717.1	735.3	757.0	771.6
37.5°	677.2	686.2	706.2	733.4	748.0
40°	646.3	655.4	677.2	706.2	724.4
42.5°	611.8	622.7	646.3	680.8	702.6
45°	579.1	590.0	617.2	657.2	680.8
47.5°	542.8	555.5	586.4	631.8	659.0
50°	506.5	521.0	555.5	606.4	635.4
52.5°	468.4	484.7	526.5	579.1	610.0
55°	430.3	448.4	497.4	551.9	582.8
57.5°	392.1	412.1	466.6	522.8	553.7
60°	354.0	375.8	435.7	493.8	524.7
62.5°	315.9	339.5	403.0	461.1	493.8
65°	275.9	305.0	370.3	428.4	459.3
67.5°	236.0	270.5	337.7	394.0	423.0
70°	197.9	236.0	303.2	355.8	383.1
72.5°	161.6	201.5	266.9	312.3	323.1
75°	127.1	168.8	228.7	243.3	246.9
77.5°	98.0	136.2	181.5	185.2	194.3
80°	70.8	103.5	123.4	134.3	138.0
82.5°	49.0	70.8	81.7	83.5	85.3
85°	30.9	38.1	41.8	39.9	39.9
87.5°	16.3	14.5	12.7	9.1	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)