

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: P260540

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260540
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2724.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

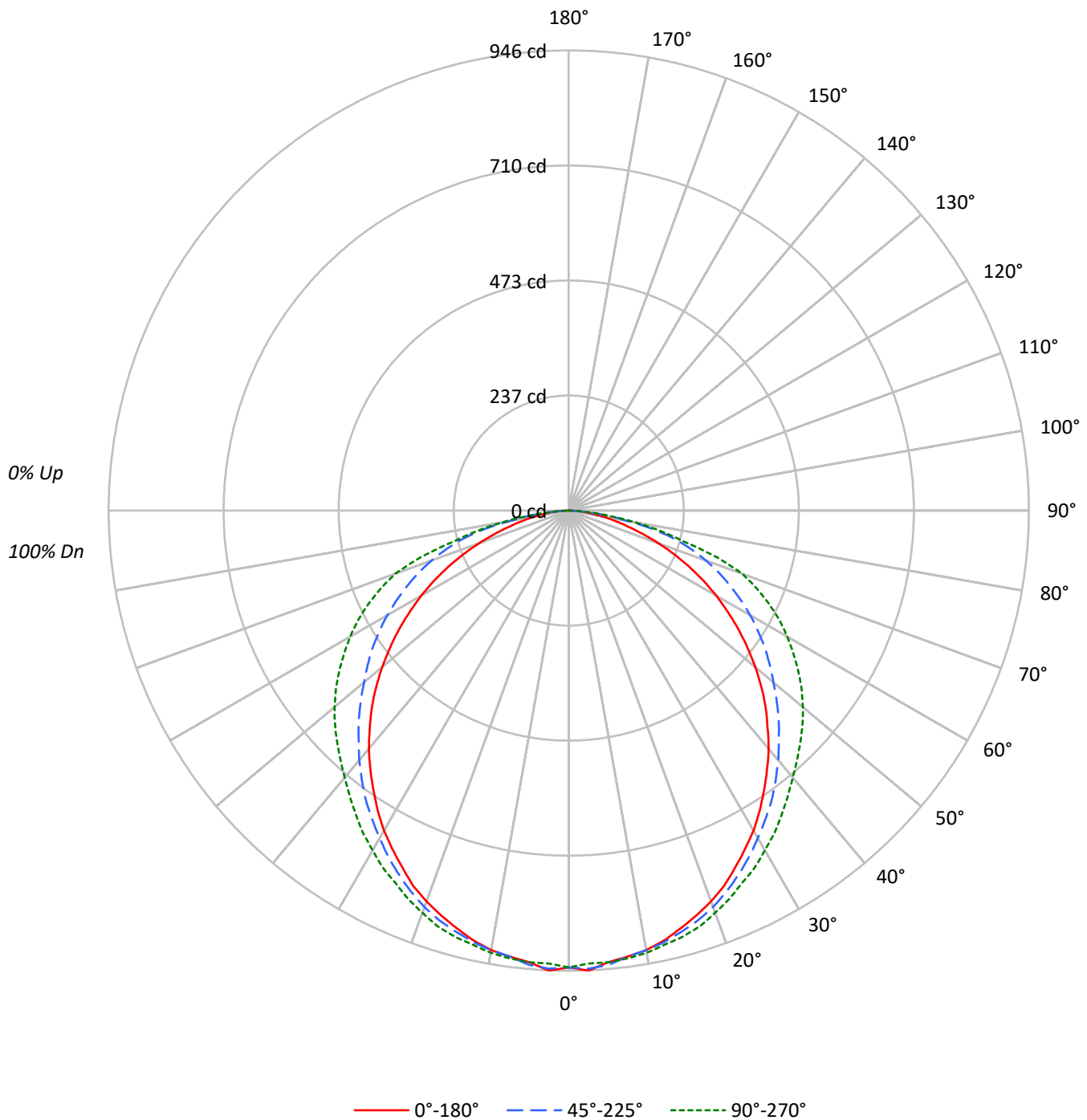
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2527	2527	2527
5°	2518	2532	2518
10°	2507	2507	2522
15°	2476	2496	2526
20°	2448	2484	2520
25°	2404	2453	2506
30°	2360	2416	2505
35°	2301	2389	2507
40°	2246	2353	2517
45°	2180	2323	2563
50°	2097	2300	2631
55°	1997	2308	2704
60°	1885	2320	2793
65°	1738	2332	2893
70°	1540	2360	2981
75°	1307	2353	2539
80°	1085	1892	2115
85°	942	1275	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	3.3
10°-20°	253.1	9.3
20°-30°	380.8	14.0
30°-40°	456.3	16.8
40°-50°	475.9	17.5
50°-60°	443.0	16.3
60°-70°	359.7	13.2
70°-80°	216.8	8.0
80°-90°	49.7	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°	722.6	26.5
0°-40°	1178.9	43.3
0°-60°	2097.8	77.0
0°-90°	2724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	932	932	937	939	932	89
15°	889	892	896	901	907	251
25°	810	815	826	837	844	373
35°	700	709	727	749	763	438
45°	573	584	610	650	673	441
55°	426	444	492	546	576	381
65°	273	302	366	424	454	270
75°	126	167	226	241	244	136
85°	30	38	41	40	40	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.1	939.1	939.1	939.1	939.1
2.5°	946.3	944.5	942.7	937.3	932.0
5°	932.0	932.0	937.3	939.1	932.0
7.5°	924.8	924.8	924.8	932.0	928.4
10°	917.6	917.6	917.6	923.0	923.0
12.5°	905.0	906.8	908.6	910.4	914.0
15°	888.9	892.4	896.0	901.4	906.8
17.5°	872.7	876.3	883.5	888.9	896.0
20°	854.7	858.3	867.3	872.7	879.9
22.5°	835.0	836.8	847.6	854.7	863.7
25°	809.8	815.2	826.0	836.8	844.0
27.5°	784.7	790.1	802.7	817.0	827.8
30°	759.6	765.0	777.5	795.5	806.3
32.5°	730.8	738.0	752.4	773.9	786.5
35°	700.3	709.3	727.2	748.8	763.2
37.5°	669.8	678.8	698.5	725.4	739.8
40°	639.3	648.2	669.8	698.5	716.5
42.5°	605.1	615.9	639.3	673.4	694.9
45°	572.8	583.6	610.5	650.0	673.4
47.5°	536.9	549.5	580.0	624.9	651.8
50°	501.0	515.4	549.5	599.8	628.5
52.5°	463.3	479.4	520.7	572.8	603.3
55°	425.6	443.5	492.0	545.9	576.4
57.5°	387.9	407.6	461.5	517.2	547.7
60°	350.2	371.7	431.0	488.4	518.9
62.5°	312.4	335.8	398.6	456.1	488.4
65°	272.9	301.7	366.3	423.8	454.3
67.5°	233.4	267.6	334.0	389.7	418.4
70°	195.7	233.4	299.9	352.0	378.9
72.5°	159.8	199.3	264.0	308.9	319.6
75°	125.7	167.0	226.3	240.6	244.2
77.5°	97.0	134.7	179.6	183.2	192.1
80°	70.0	102.4	122.1	132.9	136.5
82.5°	48.5	70.0	80.8	82.6	84.4
85°	30.5	37.7	41.3	39.5	39.5
87.5°	16.2	14.4	12.6	9.0	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)