

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: P260541

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260541
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2736.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

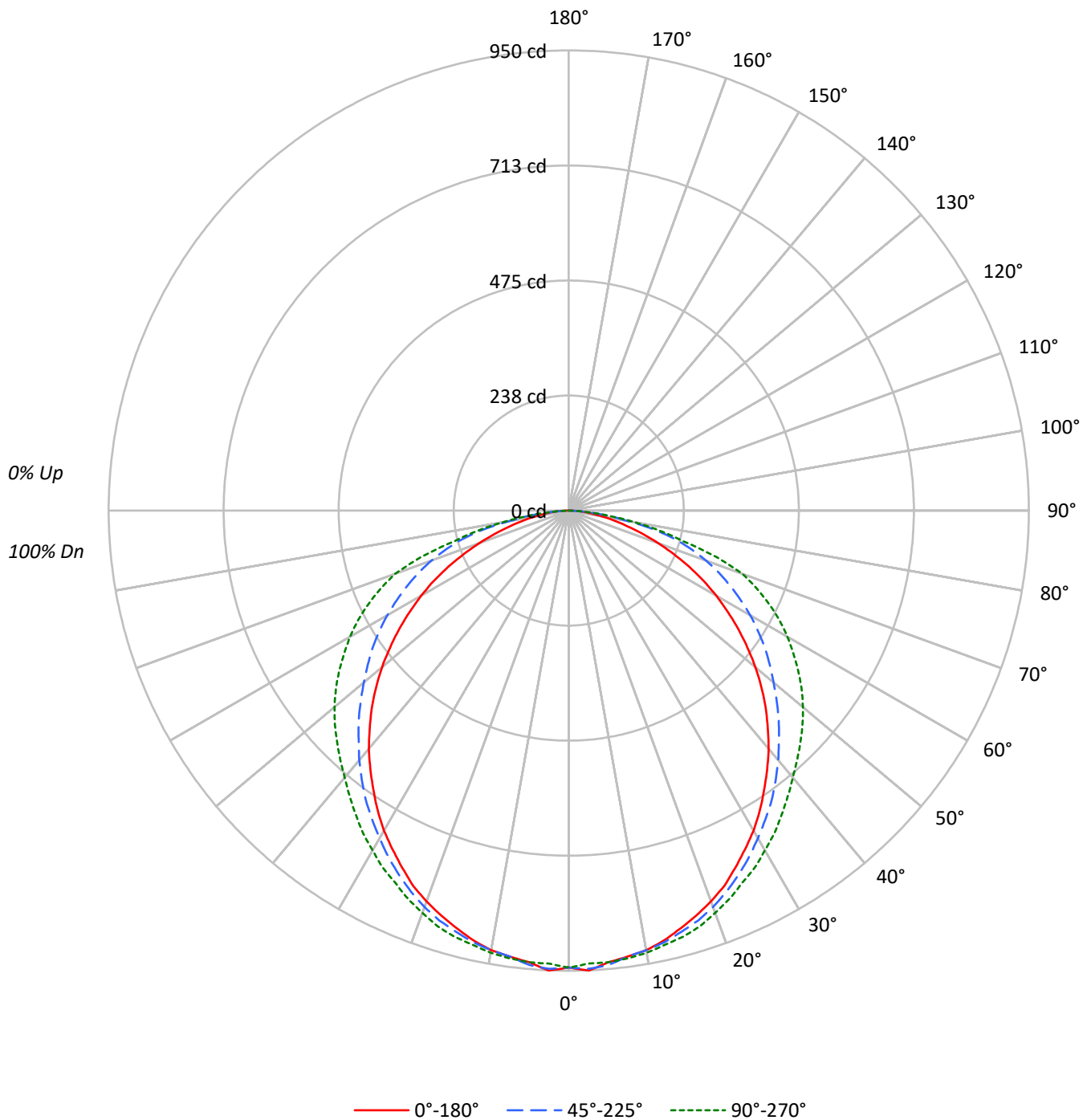
Input Watts (W): 31.062
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2538	2538	2538
5°	2529	2543	2529
10°	2518	2518	2533
15°	2487	2507	2537
20°	2458	2495	2531
25°	2415	2463	2517
30°	2371	2426	2516
35°	2311	2399	2518
40°	2256	2363	2528
45°	2189	2334	2574
50°	2107	2310	2643
55°	2005	2319	2716
60°	1893	2330	2805
65°	1745	2343	2905
70°	1547	2370	2995
75°	1313	2363	2550
80°	1089	1900	2125
85°	948	1281	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.3
10°-20°	254.2	9.3
20°-30°	382.4	14.0
30°-40°	458.3	16.8
40°-50°	478.0	17.5
50°-60°	445.0	16.3
60°-70°	361.3	13.2
70°-80°	217.7	8.0
80°-90°	49.9	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°	725.8	26.5
0°-40°	1184.1	43.3
0°-60°	2107.0	77.0
0°-90°	2736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	936	936	942	943	936	89
15°	893	896	900	905	911	252
25°	813	819	830	840	848	375
35°	703	712	730	752	766	440
45°	575	586	613	653	676	443
55°	427	446	494	548	579	382
65°	274	303	368	426	456	271
75°	126	168	227	242	245	136
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°	943.3	943.3	943.3	943.3	943.3
2.5°	950.5	948.7	946.9	941.5	936.1
5°	936.1	936.1	941.5	943.3	936.1
7.5°	928.8	928.8	928.8	936.1	932.4
10°	921.6	921.6	921.6	927.0	927.0
12.5°	909.0	910.8	912.6	914.4	918.0
15°	892.8	896.4	900.0	905.4	910.8
17.5°	876.5	880.1	887.4	892.8	900.0
20°	858.5	862.1	871.1	876.5	883.8
22.5°	838.7	840.5	851.3	858.5	867.5
25°	813.4	818.8	829.6	840.5	847.7
27.5°	788.2	793.6	806.2	820.6	831.4
30°	762.9	768.3	780.9	799.0	809.8
32.5°	734.1	741.3	755.7	777.3	790.0
35°	703.4	712.4	730.4	752.1	766.5
37.5°	672.7	681.8	701.6	728.6	743.1
40°	642.1	651.1	672.7	701.6	719.6
42.5°	607.8	618.6	642.1	676.3	698.0
45°	575.3	586.2	613.2	652.9	676.3
47.5°	539.3	551.9	582.6	627.6	654.7
50°	503.2	517.6	551.9	602.4	631.3
52.5°	465.3	481.6	523.0	575.3	606.0
55°	427.4	445.5	494.2	548.3	578.9
57.5°	389.6	409.4	463.5	519.4	550.1
60°	351.7	373.3	432.9	490.6	521.2
62.5°	313.8	337.3	400.4	458.1	490.6
65°	274.1	303.0	367.9	425.6	456.3
67.5°	234.5	268.7	335.5	391.4	420.2
70°	196.6	234.5	301.2	353.5	380.6
72.5°	160.5	200.2	265.1	310.2	321.0
75°	126.3	167.7	227.3	241.7	245.3
77.5°	97.4	135.3	180.4	184.0	193.0
80°	70.3	102.8	122.6	133.5	137.1
82.5°	48.7	70.3	81.2	83.0	84.8
85°	30.7	37.9	41.5	39.7	39.7
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)