

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: P260544

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260544
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-L92765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2653.0 lumens
Efficiency: N/A
Efficacy: 77.3 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

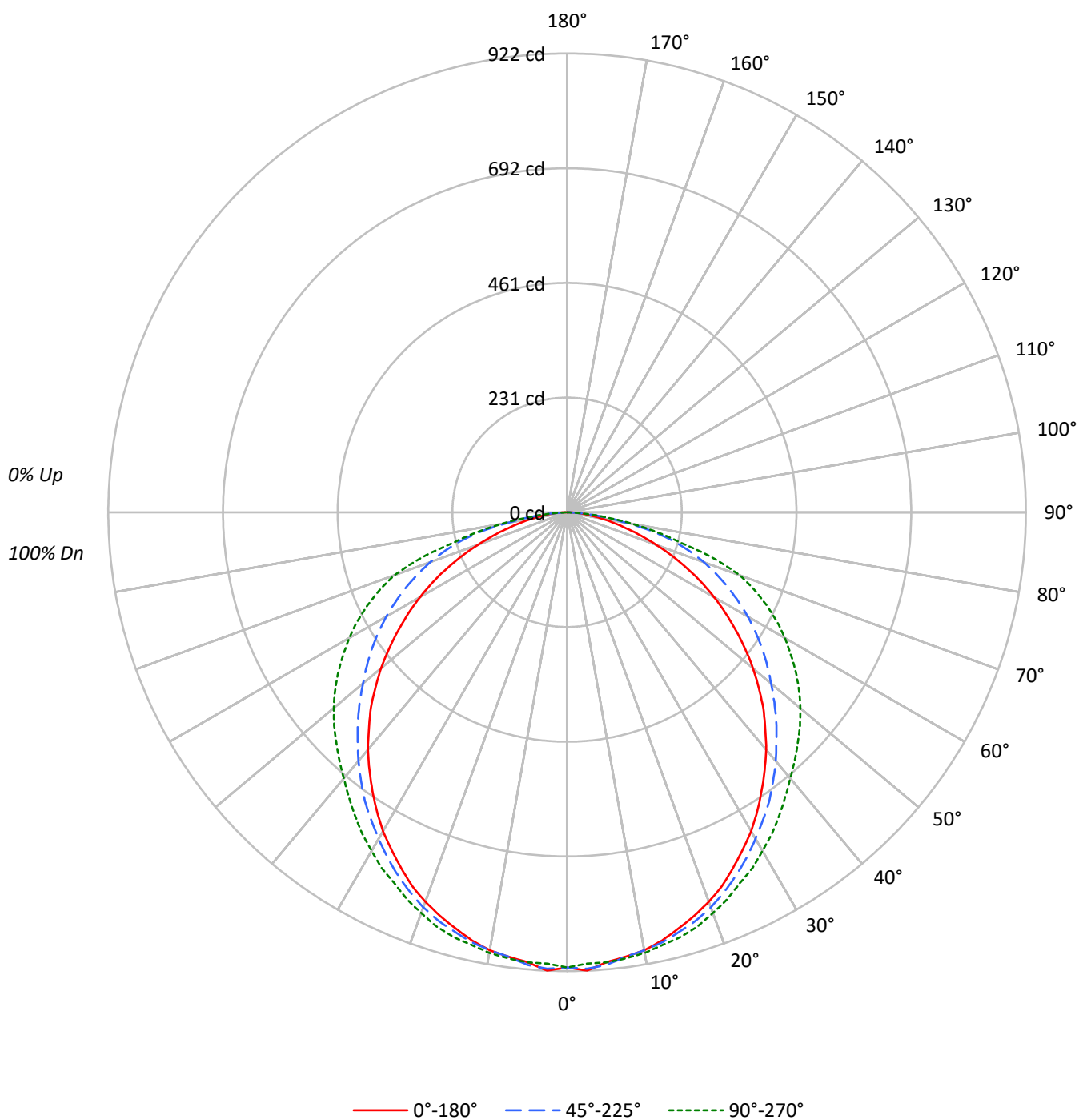
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	2461	2461	2461
5°	2452	2466	2452
10°	2442	2442	2456
15°	2412	2431	2461
20°	2384	2419	2454
25°	2342	2389	2441
30°	2299	2353	2440
35°	2241	2327	2442
40°	2187	2291	2451
45°	2123	2263	2496
50°	2043	2241	2563
55°	1945	2248	2634
60°	1835	2259	2720
65°	1692	2272	2818
70°	1500	2298	2903
75°	1273	2292	2472
80°	1057	1843	2060
85°	917	1241	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.3
10°-20°	246.5	9.3
20°-30°	370.9	14.0
30°-40°	444.4	16.8
40°-50°	463.5	17.5
50°-60°	431.5	16.3
60°-70°	350.4	13.2
70°-80°	211.1	8.0
80°-90°	48.4	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°	703.8	26.5
0°-40°	1148.2	43.3
0°-60°	2043.1	77.0
0°-90°	2653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2653.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	908	908	913	915	908	86
15°	866	869	873	878	883	244
25°	789	794	804	815	822	363
35°	682	691	708	729	743	427
45°	558	568	595	633	656	429
55°	414	432	479	532	561	371
65°	266	294	357	413	442	263
75°	122	163	220	234	238	132
85°	30	37	40	38	38	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.7	914.7	914.7	914.7	914.7
2.5°	921.7	919.9	918.2	912.9	907.7
5°	907.7	907.7	912.9	914.7	907.7
7.5°	900.7	900.7	900.7	907.7	904.2
10°	893.7	893.7	893.7	898.9	898.9
12.5°	881.4	883.2	884.9	886.7	890.2
15°	865.7	869.2	872.7	877.9	883.2
17.5°	849.9	853.4	860.4	865.7	872.7
20°	832.5	836.0	844.7	849.9	856.9
22.5°	813.2	815.0	825.5	832.5	841.2
25°	788.7	794.0	804.5	815.0	822.0
27.5°	764.3	769.5	781.7	795.7	806.2
30°	739.8	745.0	757.3	774.7	785.2
32.5°	711.8	718.8	732.8	753.8	766.0
35°	682.1	690.8	708.3	729.3	743.3
37.5°	652.3	661.1	680.3	706.5	720.5
40°	622.6	631.3	652.3	680.3	697.8
42.5°	589.4	599.9	622.6	655.8	676.8
45°	557.9	568.4	594.6	633.1	655.8
47.5°	522.9	535.2	564.9	608.6	634.8
50°	487.9	501.9	535.2	584.1	612.1
52.5°	451.2	466.9	507.2	557.9	587.6
55°	414.5	432.0	479.2	531.7	561.4
57.5°	377.8	397.0	449.5	503.7	533.4
60°	341.0	362.0	419.7	475.7	505.4
62.5°	304.3	327.0	388.2	444.2	475.7
65°	265.8	293.8	356.8	412.7	442.5
67.5°	227.4	260.6	325.3	379.5	407.5
70°	190.6	227.4	292.1	342.8	369.0
72.5°	155.6	194.1	257.1	300.8	311.3
75°	122.4	162.6	220.4	234.3	237.8
77.5°	94.4	131.2	174.9	178.4	187.1
80°	68.2	99.7	118.9	129.4	132.9
82.5°	47.2	68.2	78.7	80.4	82.2
85°	29.7	36.7	40.2	38.5	38.5
87.5°	15.7	14.0	12.2	8.7	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)