

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: P260538

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260538
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-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2630.0 lumens
Efficiency: N/A
Efficacy: 85.7 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

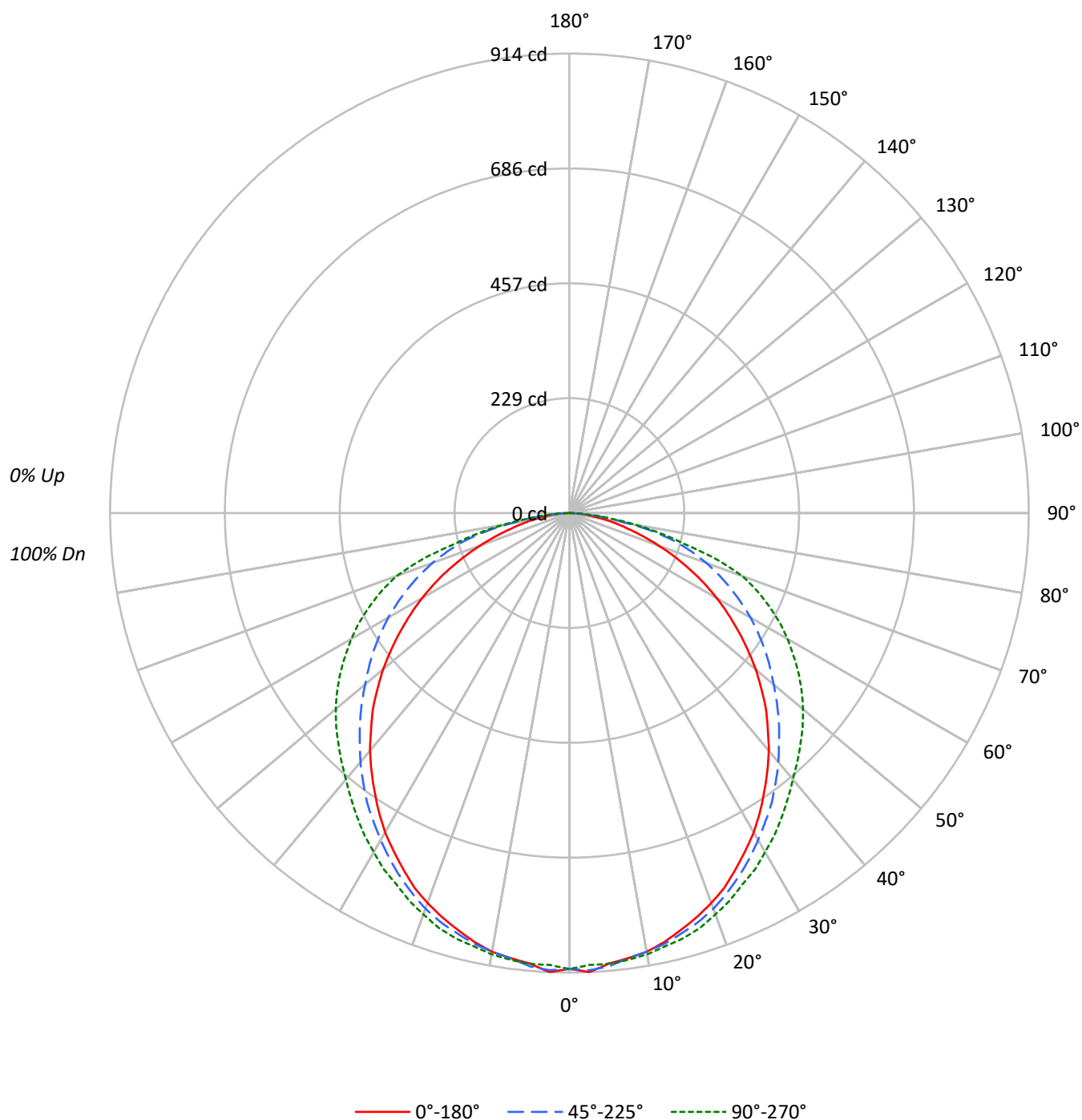
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2440	2440	2440
5°	2431	2445	2431
10°	2421	2421	2435
15°	2391	2410	2439
20°	2363	2398	2433
25°	2322	2368	2419
30°	2279	2333	2419
35°	2221	2306	2420
40°	2168	2272	2430
45°	2105	2243	2474
50°	2025	2221	2540
55°	1928	2228	2611
60°	1820	2239	2696
65°	1678	2252	2793
70°	1487	2278	2878
75°	1262	2271	2452
80°	1048	1827	2042
85°	911	1232	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	3.3
10°-20°	244.4	9.3
20°-30°	367.6	14.0
30°-40°	440.6	16.8
40°-50°	459.4	17.5
50°-60°	427.7	16.3
60°-70°	347.3	13.2
70°-80°	209.3	8.0
80°-90°	48.0	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°	697.7	26.5
0°-40°	1138.2	43.3
0°-60°	2025.4	77.0
0°-90°	2630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	900	900	905	907	900	86
15°	858	862	865	870	876	242
25°	782	787	798	808	815	360
35°	676	685	702	723	737	423
45°	553	564	590	628	650	426
55°	411	428	475	527	556	367
65°	264	291	354	409	439	261
75°	121	161	218	232	236	131
85°	30	36	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°	906.7	906.7	906.7	906.7	906.7
2.5°	913.7	911.9	910.2	905.0	899.8
5°	899.8	899.8	905.0	906.7	899.8
7.5°	892.9	892.9	892.9	899.8	896.3
10°	885.9	885.9	885.9	891.1	891.1
12.5°	873.8	875.5	877.3	879.0	882.5
15°	858.2	861.6	865.1	870.3	875.5
17.5°	842.6	846.0	853.0	858.2	865.1
20°	825.2	828.7	837.4	842.6	849.5
22.5°	806.2	807.9	818.3	825.2	833.9
25°	781.9	787.1	797.5	807.9	814.8
27.5°	757.6	762.8	775.0	788.8	799.2
30°	733.4	738.6	750.7	768.0	778.4
32.5°	705.6	712.6	726.4	747.2	759.4
35°	676.1	684.8	702.1	723.0	736.8
37.5°	646.7	655.3	674.4	700.4	714.3
40°	617.2	625.9	646.7	674.4	691.7
42.5°	584.3	594.7	617.2	650.1	670.9
45°	553.1	563.5	589.5	627.6	650.1
47.5°	518.4	530.5	560.0	603.3	629.3
50°	483.7	497.6	530.5	579.1	606.8
52.5°	447.3	462.9	502.8	553.1	582.5
55°	410.9	428.2	475.0	527.0	556.5
57.5°	374.5	393.5	445.6	499.3	528.8
60°	338.1	358.9	416.1	471.6	501.0
62.5°	301.7	324.2	384.9	440.4	471.6
65°	263.5	291.3	353.7	409.2	438.6
67.5°	225.4	258.3	322.5	376.2	404.0
70°	189.0	225.4	289.5	339.8	365.8
72.5°	154.3	192.4	254.9	298.2	308.6
75°	121.4	161.2	218.4	232.3	235.8
77.5°	93.6	130.0	173.4	176.8	185.5
80°	67.6	98.8	117.9	128.3	131.8
82.5°	46.8	67.6	78.0	79.8	81.5
85°	29.5	36.4	39.9	38.1	38.1
87.5°	15.6	13.9	12.1	8.7	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)