

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: P230879

Luminaire Tested: **22CZ-LD5-39SE-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230879
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-LD5-39SE-RDP-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2502.9 lumens
Efficiency: N/A
Efficacy: 71.7 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

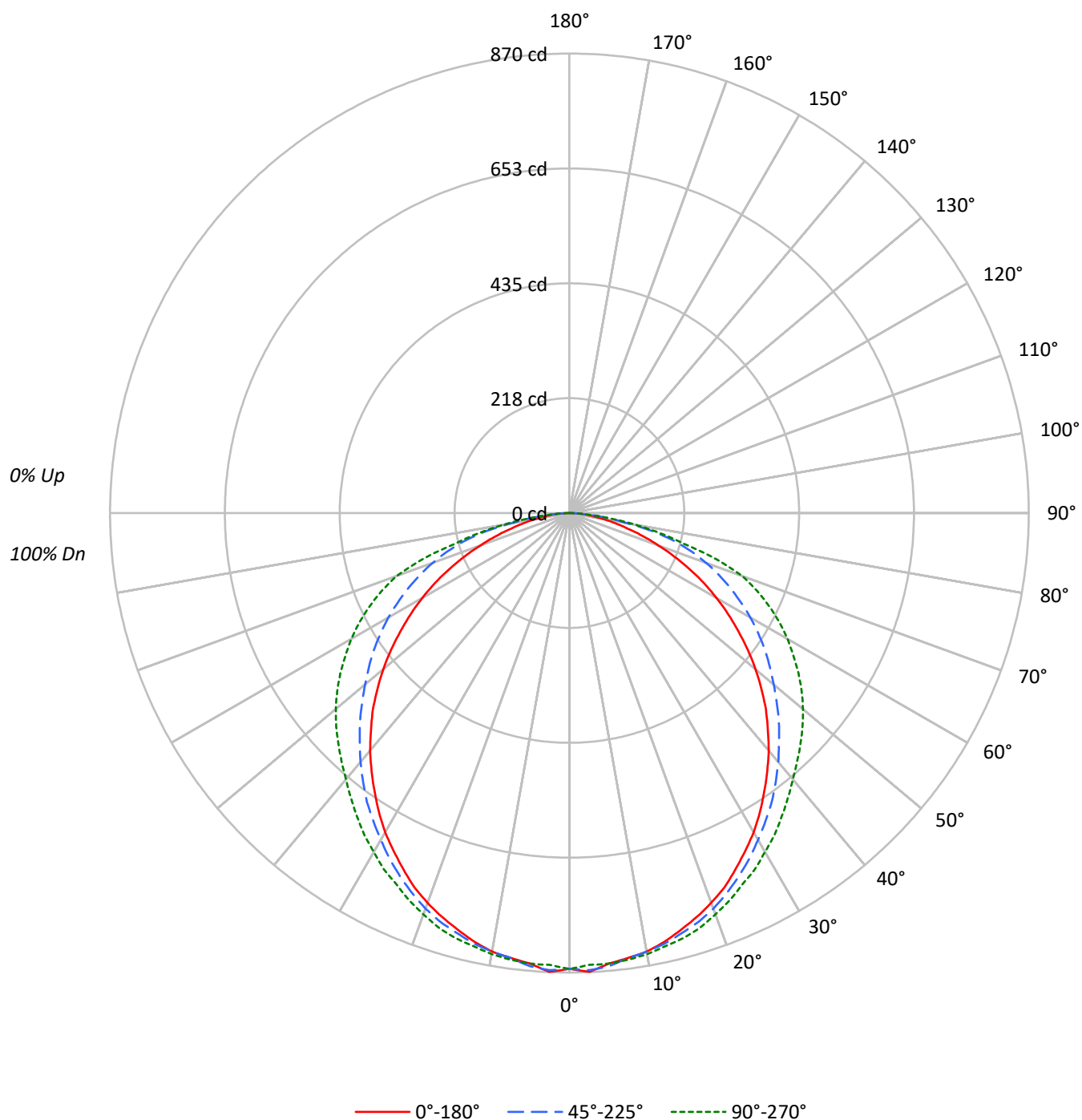
Input Watts (W): 34.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2322	2322	2322
5°	2313	2327	2313
10°	2304	2304	2317
15°	2275	2294	2321
20°	2249	2282	2315
25°	2209	2254	2303
30°	2169	2220	2302
35°	2114	2195	2303
40°	2063	2162	2312
45°	2003	2135	2355
50°	1927	2114	2418
55°	1834	2121	2485
60°	1731	2131	2566
65°	1597	2143	2658
70°	1415	2168	2739
75°	1201	2162	2333
80°	996	1739	1943
85°	865	1170	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.3
10°-20°	232.6	9.3
20°-30°	349.9	14.0
30°-40°	419.3	16.8
40°-50°	437.2	17.5
50°-60°	407.1	16.3
60°-70°	330.5	13.2
70°-80°	199.2	8.0
80°-90°	45.6	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°	664.0	26.5
0°-40°	1083.2	43.3
0°-60°	1927.5	77.0
0°-90°	2502.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2502.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	856	856	861	863	856	81
15°	817	820	823	828	833	230
25°	744	749	759	769	776	343
35°	644	652	668	688	701	403
45°	526	536	561	597	619	405
55°	391	408	452	502	530	350
65°	251	277	337	389	417	248
75°	116	153	208	221	224	125
85°	28	35	38	36	36	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	862.9	862.9	862.9	862.9	862.9
2.5°	869.5	867.9	866.2	861.3	856.3
5°	856.3	856.3	861.3	862.9	856.3
7.5°	849.7	849.7	849.7	856.3	853.0
10°	843.1	843.1	843.1	848.1	848.1
12.5°	831.6	833.2	834.9	836.5	839.8
15°	816.7	820.0	823.3	828.3	833.2
17.5°	801.9	805.2	811.8	816.7	823.3
20°	785.4	788.7	796.9	801.9	808.5
22.5°	767.2	768.9	778.8	785.4	793.6
25°	744.1	749.1	759.0	768.9	775.5
27.5°	721.0	726.0	737.5	750.7	760.6
30°	697.9	702.9	714.4	730.9	740.8
32.5°	671.5	678.1	691.3	711.1	722.7
35°	643.5	651.7	668.2	688.0	701.2
37.5°	615.4	623.7	641.8	666.6	679.8
40°	587.4	595.6	615.4	641.8	658.3
42.5°	556.0	565.9	587.4	618.7	638.5
45°	526.3	536.2	561.0	597.3	618.7
47.5°	493.3	504.9	532.9	574.2	598.9
50°	460.3	473.5	504.9	551.1	577.5
52.5°	425.7	440.5	478.5	526.3	554.4
55°	391.0	407.5	452.1	501.6	529.6
57.5°	356.4	374.5	424.0	475.2	503.2
60°	321.7	341.5	396.0	448.8	476.8
62.5°	287.1	308.5	366.3	419.1	448.8
65°	250.8	277.2	336.6	389.4	417.4
67.5°	214.5	245.8	306.9	358.0	384.4
70°	179.8	214.5	275.5	323.4	348.1
72.5°	146.8	183.1	242.5	283.8	293.7
75°	115.5	153.4	207.9	221.1	224.4
77.5°	89.1	123.7	165.0	168.3	176.5
80°	64.3	94.0	112.2	122.1	125.4
82.5°	44.5	64.3	74.2	75.9	77.5
85°	28.0	34.6	37.9	36.3	36.3
87.5°	14.8	13.2	11.5	8.2	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)