

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: P230846

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230846
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-LD5-24-RDP-UNV-L940-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1435.0 lumens
Efficiency: N/A
Efficacy: 73.2 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

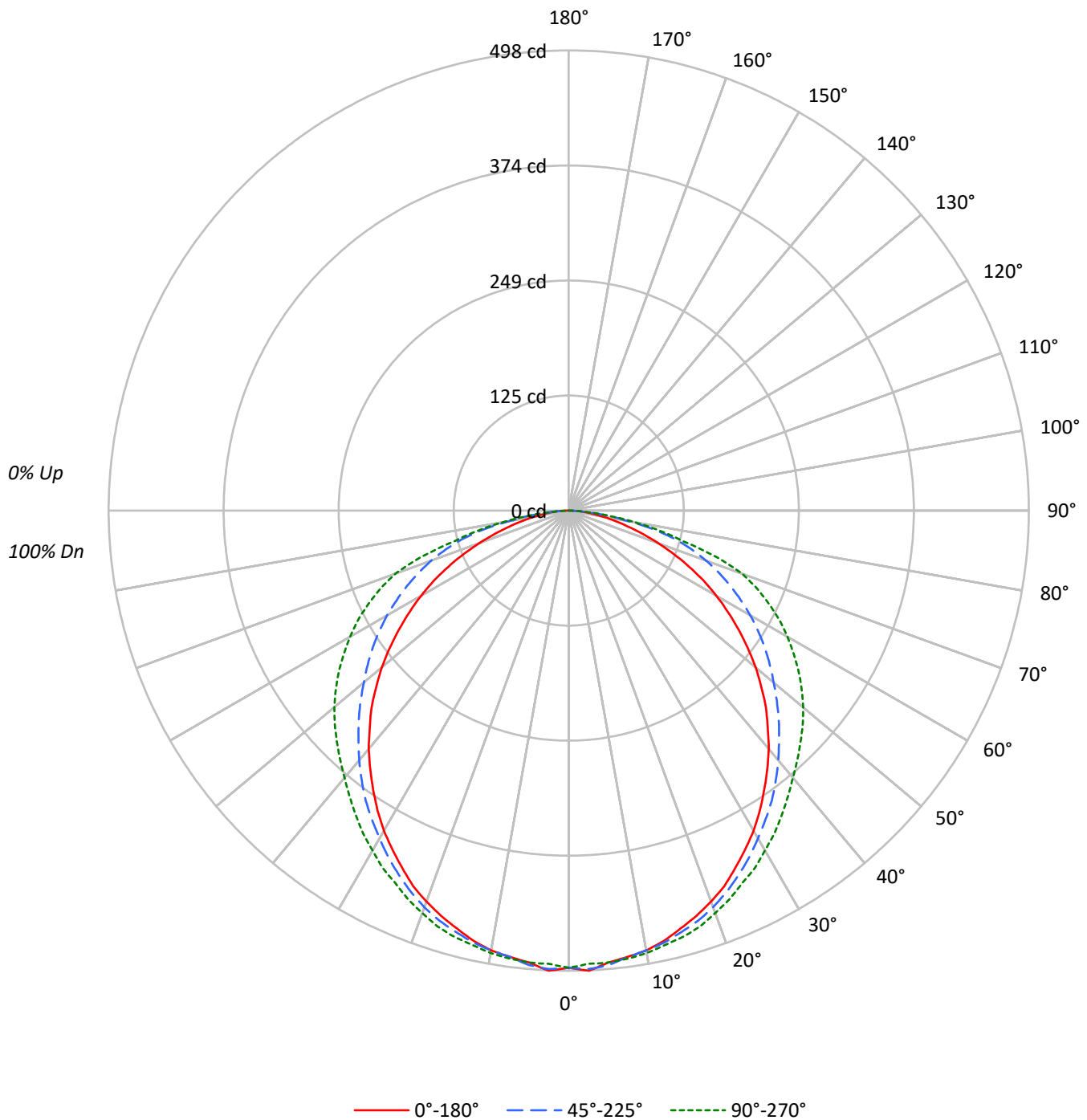
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1331	1331	1331
5°	1326	1334	1326
10°	1321	1321	1329
15°	1304	1315	1331
20°	1290	1308	1327
25°	1267	1292	1320
30°	1243	1273	1320
35°	1212	1259	1321
40°	1183	1239	1326
45°	1149	1224	1350
50°	1105	1212	1386
55°	1052	1216	1425
60°	993	1222	1471
65°	916	1229	1524
70°	811	1243	1570
75°	688	1239	1337
80°	572	996	1114
85°	497	673	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	3.3
10°-20°	133.3	9.3
20°-30°	200.6	14.0
30°-40°	240.4	16.8
40°-50°	250.7	17.5
50°-60°	233.4	16.3
60°-70°	189.5	13.2
70°-80°	114.2	8.0
80°-90°	26.2	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°	380.7	26.5
0°-40°	621.0	43.3
0°-60°	1105.1	77.0
0°-90°	1435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1435.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	491	491	494	495	491	47
15°	468	470	472	475	478	132
25°	427	430	435	441	445	197
35°	369	374	383	394	402	231
45°	302	307	322	342	355	232
55°	224	234	259	288	304	200
65°	144	159	193	223	239	142
75°	66	88	119	127	129	72
85°	16	20	22	21	21	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	494.7	494.7	494.7	494.7	494.7
2.5°	498.5	497.6	496.6	493.8	491.0
5°	491.0	491.0	493.8	494.7	491.0
7.5°	487.2	487.2	487.2	491.0	489.1
10°	483.4	483.4	483.4	486.2	486.2
12.5°	476.8	477.7	478.7	479.6	481.5
15°	468.2	470.1	472.0	474.9	477.7
17.5°	459.7	461.6	465.4	468.2	472.0
20°	450.3	452.2	456.9	459.7	463.5
22.5°	439.9	440.8	446.5	450.3	455.0
25°	426.6	429.5	435.1	440.8	444.6
27.5°	413.4	416.2	422.8	430.4	436.1
30°	400.1	403.0	409.6	419.1	424.7
32.5°	385.0	388.8	396.4	407.7	414.3
35°	368.9	373.7	383.1	394.5	402.0
37.5°	352.8	357.6	368.0	382.2	389.7
40°	336.8	341.5	352.8	368.0	377.4
42.5°	318.8	324.5	336.8	354.7	366.1
45°	301.8	307.4	321.6	342.4	354.7
47.5°	282.8	289.5	305.5	329.2	343.4
50°	263.9	271.5	289.5	315.9	331.1
52.5°	244.1	252.6	274.3	301.8	317.8
55°	224.2	233.7	259.2	287.6	303.7
57.5°	204.3	214.7	243.1	272.4	288.5
60°	184.5	195.8	227.0	257.3	273.4
62.5°	164.6	176.9	210.0	240.3	257.3
65°	143.8	158.9	193.0	223.2	239.3
67.5°	123.0	140.9	175.9	205.3	220.4
70°	103.1	123.0	158.0	185.4	199.6
72.5°	84.2	105.0	139.1	162.7	168.4
75°	66.2	88.0	119.2	126.8	128.6
77.5°	51.1	70.9	94.6	96.5	101.2
80°	36.9	53.9	64.3	70.0	71.9
82.5°	25.5	36.9	42.6	43.5	44.5
85°	16.1	19.9	21.8	20.8	20.8
87.5°	8.5	7.6	6.6	4.7	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)