

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: P230869

Luminaire Tested: **22CZ-LD5-24SE-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230869
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-LD5-24SE-RDP-UNV-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (56) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1399.0 lumens
Efficiency: N/A
Efficacy: 66.3 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

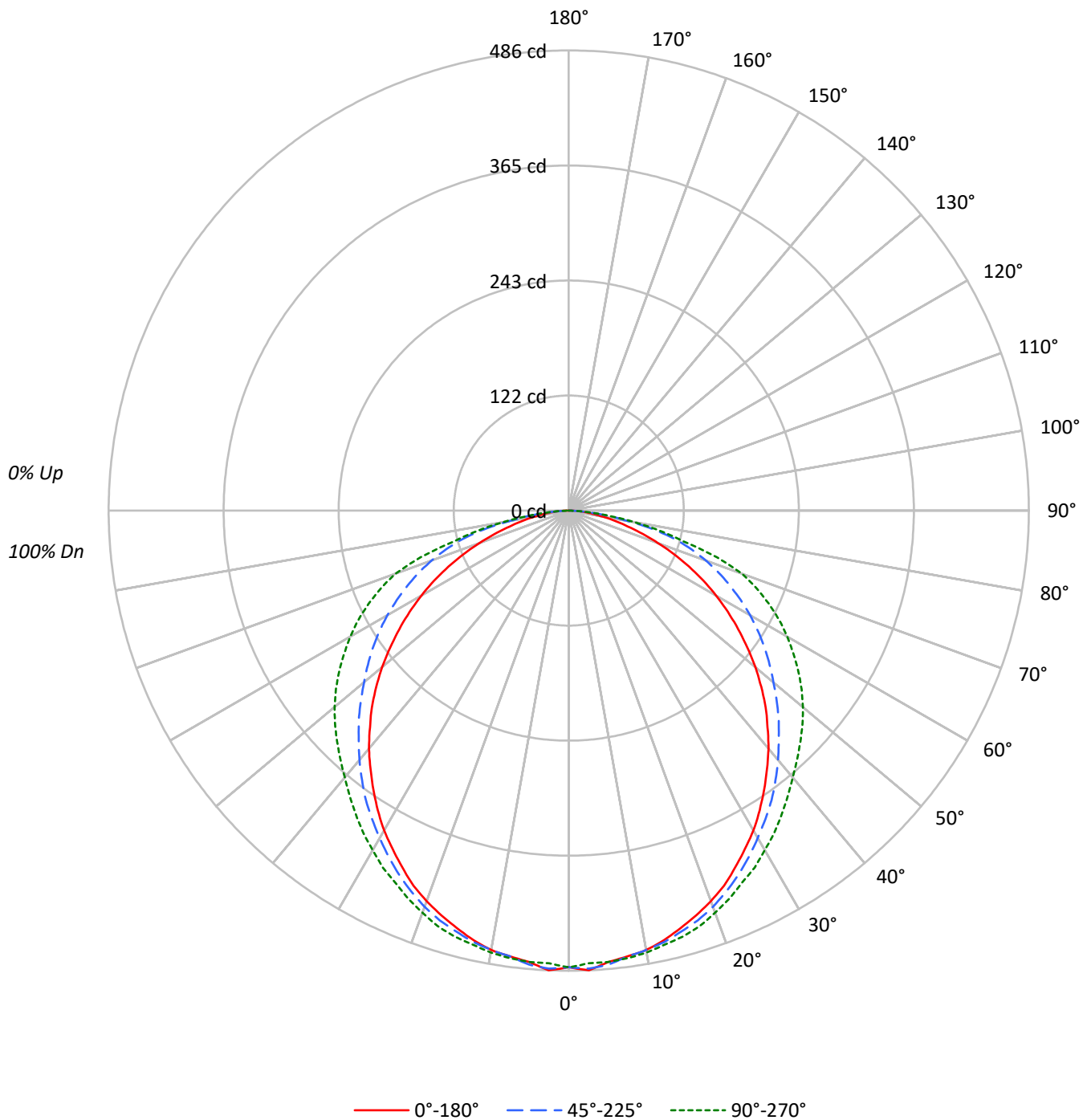
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1298	1298	1298
5°	1293	1300	1293
10°	1288	1288	1295
15°	1272	1282	1297
20°	1257	1275	1294
25°	1235	1260	1287
30°	1212	1241	1287
35°	1182	1227	1287
40°	1153	1208	1293
45°	1120	1193	1316
50°	1077	1181	1351
55°	1026	1186	1389
60°	968	1191	1434
65°	893	1198	1486
70°	791	1212	1531
75°	672	1208	1304
80°	558	972	1086
85°	485	655	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	3.3
10°-20°	130.0	9.3
20°-30°	195.6	14.0
30°-40°	234.3	16.8
40°-50°	244.4	17.5
50°-60°	227.5	16.3
60°-70°	184.7	13.2
70°-80°	111.3	8.0
80°-90°	25.5	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°	371.1	26.5
0°-40°	605.5	43.3
0°-60°	1077.4	77.0
0°-90°	1399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	479	479	481	482	479	46
15°	456	458	460	463	466	129
25°	416	419	424	430	433	192
35°	360	364	374	385	392	225
45°	294	300	314	334	346	226
55°	219	228	253	280	296	195
65°	140	155	188	218	233	139
75°	65	86	116	124	125	70
85°	16	19	21	20	20	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	482.3	482.3	482.3	482.3	482.3
2.5°	486.0	485.1	484.2	481.4	478.6
5°	478.6	478.6	481.4	482.3	478.6
7.5°	474.9	474.9	474.9	478.6	476.8
10°	471.3	471.3	471.3	474.0	474.0
12.5°	464.8	465.7	466.6	467.6	469.4
15°	456.5	458.3	460.2	463.0	465.7
17.5°	448.2	450.0	453.7	456.5	460.2
20°	439.0	440.8	445.4	448.2	451.9
22.5°	428.8	429.8	435.3	439.0	443.6
25°	415.9	418.7	424.2	429.8	433.4
27.5°	403.0	405.8	412.2	419.6	425.1
30°	390.1	392.9	399.3	408.5	414.1
32.5°	375.3	379.0	386.4	397.5	403.9
35°	359.7	364.3	373.5	384.6	391.9
37.5°	344.0	348.6	358.7	372.6	380.0
40°	328.3	332.9	344.0	358.7	368.0
42.5°	310.8	316.3	328.3	345.8	356.9
45°	294.2	299.7	313.6	333.8	345.8
47.5°	275.7	282.2	297.9	320.9	334.8
50°	257.3	264.7	282.2	308.0	322.8
52.5°	237.9	246.2	267.4	294.2	309.9
55°	218.6	227.8	252.7	280.4	296.0
57.5°	199.2	209.3	237.0	265.6	281.3
60°	179.8	190.9	221.3	250.8	266.5
62.5°	160.5	172.5	204.7	234.2	250.8
65°	140.2	154.9	188.1	217.6	233.3
67.5°	119.9	137.4	171.5	200.1	214.9
70°	100.5	119.9	154.0	180.8	194.6
72.5°	82.1	102.4	135.6	158.6	164.2
75°	64.6	85.8	116.2	123.6	125.4
77.5°	49.8	69.2	92.2	94.1	98.7
80°	36.0	52.6	62.7	68.2	70.1
82.5°	24.9	36.0	41.5	42.4	43.3
85°	15.7	19.4	21.2	20.3	20.3
87.5°	8.3	7.4	6.5	4.6	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)