

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: P230845

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230845
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-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1401.0 lumens
Efficiency: N/A
Efficacy: 71.5 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

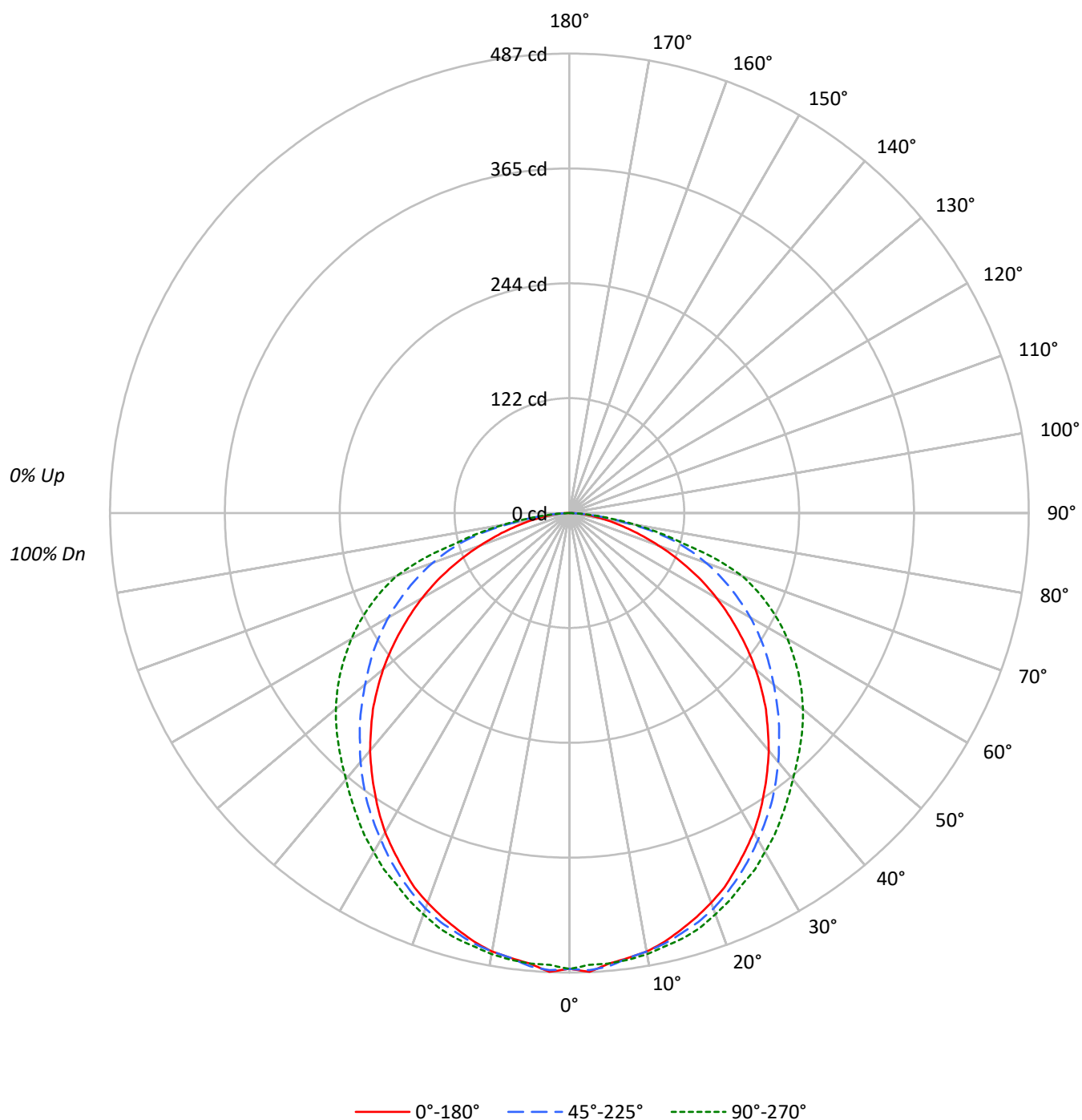
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10	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	100		
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69		
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57		
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1300	1300	1300
5°	1295	1302	1295
10°	1289	1289	1297
15°	1274	1284	1299
20°	1259	1277	1296
25°	1237	1261	1289
30°	1214	1243	1289
35°	1183	1229	1289
40°	1155	1210	1294
45°	1121	1195	1318
50°	1079	1183	1353
55°	1027	1187	1391
60°	969	1193	1436
65°	894	1200	1488
70°	792	1213	1533
75°	672	1210	1306
80°	558	973	1088
85°	485	655	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	3.3
10°-20°	130.2	9.3
20°-30°	195.8	14.0
30°-40°	234.7	16.8
40°-50°	244.7	17.5
50°-60°	227.9	16.3
60°-70°	185.0	13.2
70°-80°	111.5	8.0
80°-90°	25.6	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°	371.6	26.5
0°-40°	606.3	43.3
0°-60°	1078.9	77.0
0°-90°	1401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	483	483	483	483	483	
5°	479	479	482	483	479	46
15°	457	459	461	464	466	129
25°	416	419	425	430	434	192
35°	360	365	374	385	392	225
45°	295	300	314	334	346	227
55°	219	228	253	281	296	196
65°	140	155	188	218	234	139
75°	65	86	116	124	126	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°	483.0	483.0	483.0	483.0	483.0
2.5°	486.7	485.8	484.9	482.1	479.3
5°	479.3	479.3	482.1	483.0	479.3
7.5°	475.6	475.6	475.6	479.3	477.5
10°	471.9	471.9	471.9	474.7	474.7
12.5°	465.5	466.4	467.3	468.2	470.1
15°	457.2	459.0	460.8	463.6	466.4
17.5°	448.8	450.7	454.4	457.2	460.8
20°	439.6	441.5	446.1	448.8	452.5
22.5°	429.4	430.4	435.9	439.6	444.2
25°	416.5	419.3	424.8	430.4	434.1
27.5°	403.6	406.4	412.8	420.2	425.8
30°	390.7	393.4	399.9	409.1	414.7
32.5°	375.9	379.6	387.0	398.0	404.5
35°	360.2	364.8	374.0	385.1	392.5
37.5°	344.5	349.1	359.3	373.1	380.5
40°	328.8	333.4	344.5	359.3	368.5
42.5°	311.2	316.8	328.8	346.3	357.4
45°	294.6	300.2	314.0	334.3	346.3
47.5°	276.1	282.6	298.3	321.4	335.2
50°	257.7	265.1	282.6	308.5	323.2
52.5°	238.3	246.6	267.8	294.6	310.3
55°	218.9	228.1	253.1	280.8	296.5
57.5°	199.5	209.6	237.4	266.0	281.7
60°	180.1	191.2	221.6	251.2	266.9
62.5°	160.7	172.7	205.0	234.6	251.2
65°	140.4	155.2	188.4	218.0	233.7
67.5°	120.1	137.6	171.8	200.4	215.2
70°	100.7	120.1	154.2	181.0	194.9
72.5°	82.2	102.5	135.8	158.8	164.4
75°	64.6	85.9	116.4	123.8	125.6
77.5°	49.9	69.3	92.4	94.2	98.8
80°	36.0	52.6	62.8	68.3	70.2
82.5°	24.9	36.0	41.6	42.5	43.4
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)