

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: P230848

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230848
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-LD5-29-RDP-UNV-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1581.0 lumens
Efficiency: N/A
Efficacy: 67.3 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

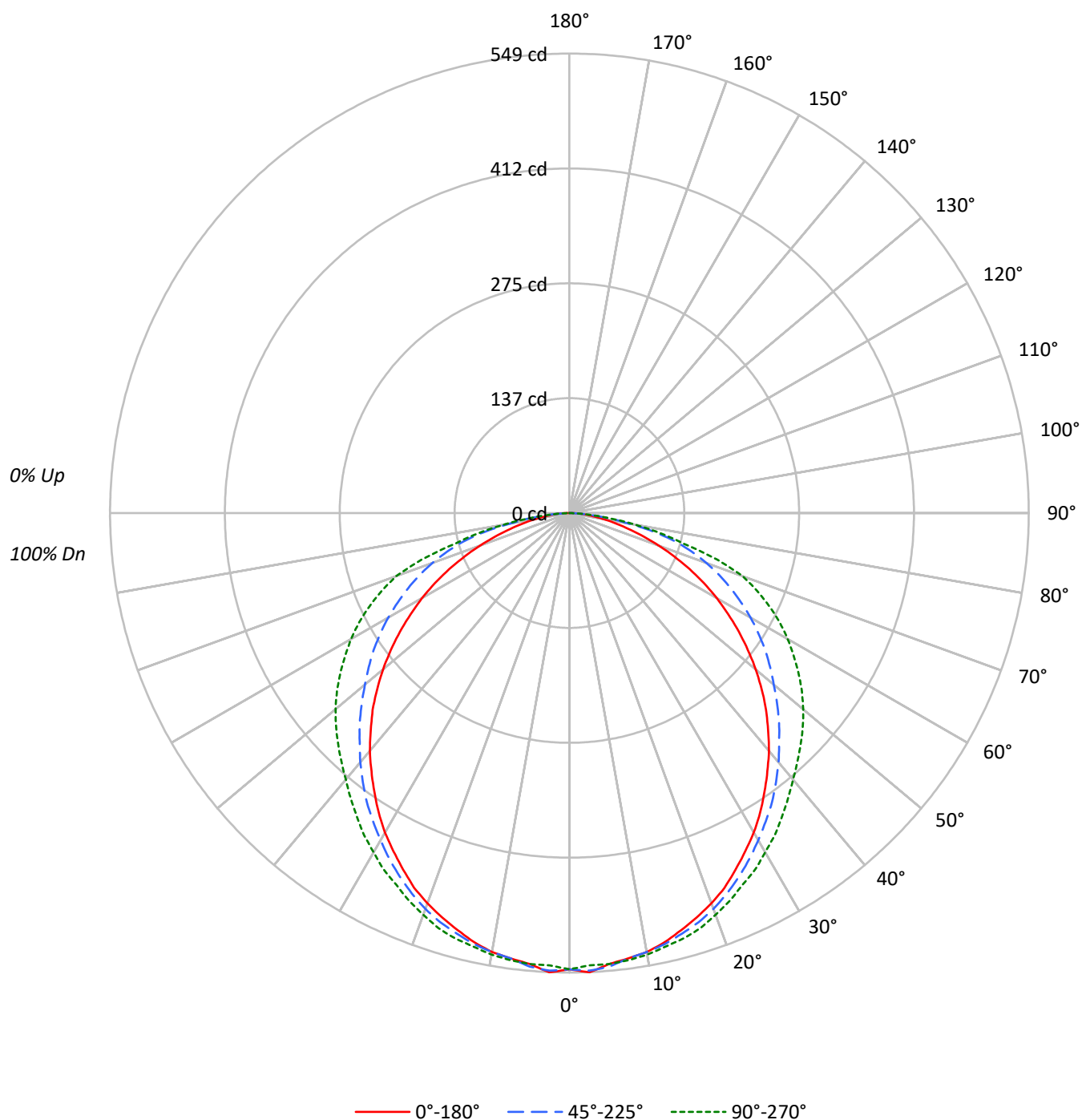
Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1467	1467	1467
5°	1461	1469	1461
10°	1455	1455	1464
15°	1437	1449	1466
20°	1421	1442	1462
25°	1396	1423	1454
30°	1370	1402	1454
35°	1335	1387	1455
40°	1303	1365	1461
45°	1265	1348	1487
50°	1217	1335	1527
55°	1159	1340	1569
60°	1094	1346	1621
65°	1009	1354	1679
70°	894	1369	1730
75°	759	1365	1473
80°	629	1099	1227
85°	546	741	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	3.3
10°-20°	146.9	9.3
20°-30°	221.0	14.0
30°-40°	264.8	16.8
40°-50°	276.2	17.5
50°-60°	257.1	16.3
60°-70°	208.8	13.2
70°-80°	125.8	8.0
80°-90°	28.8	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°	419.4	26.5
0°-40°	684.2	43.3
0°-60°	1217.5	77.0
0°-90°	1581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	545	545	545	545	545	
5°	541	541	544	545	541	51
15°	516	518	520	523	526	146
25°	470	473	479	486	490	217
35°	406	412	422	435	443	254
45°	332	339	354	377	391	256
55°	247	257	286	317	334	221
65°	158	175	213	246	264	157
75°	73	97	131	140	142	79
85°	18	22	24	23	23	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	545.1	545.1	545.1	545.1	545.1
2.5°	549.2	548.2	547.2	544.0	540.9
5°	540.9	540.9	544.0	545.1	540.9
7.5°	536.7	536.7	536.7	540.9	538.8
10°	532.6	532.6	532.6	535.7	535.7
12.5°	525.3	526.3	527.4	528.4	530.5
15°	515.9	518.0	520.1	523.2	526.3
17.5°	506.5	508.6	512.8	515.9	520.1
20°	496.1	498.2	503.4	506.5	510.7
22.5°	484.6	485.7	491.9	496.1	501.3
25°	470.0	473.2	479.4	485.7	489.8
27.5°	455.4	458.6	465.9	474.2	480.5
30°	440.8	444.0	451.3	461.7	467.9
32.5°	424.2	428.3	436.7	449.2	456.5
35°	406.5	411.7	422.1	434.6	442.9
37.5°	388.7	394.0	405.4	421.0	429.4
40°	371.0	376.2	388.7	405.4	415.8
42.5°	351.2	357.5	371.0	390.8	403.3
45°	332.5	338.7	354.3	377.3	390.8
47.5°	311.6	318.9	336.6	362.7	378.3
50°	290.8	299.1	318.9	348.1	364.8
52.5°	268.9	278.3	302.2	332.5	350.2
55°	247.0	257.4	285.6	316.8	334.5
57.5°	225.1	236.6	267.8	300.2	317.9
60°	203.2	215.7	250.1	283.5	301.2
62.5°	181.3	194.9	231.4	264.7	283.5
65°	158.4	175.1	212.6	246.0	263.7
67.5°	135.5	155.3	193.8	226.2	242.8
70°	113.6	135.5	174.0	204.3	219.9
72.5°	92.8	115.7	153.2	179.3	185.5
75°	73.0	96.9	131.3	139.7	141.7
77.5°	56.3	78.2	104.2	106.3	111.5
80°	40.6	59.4	70.9	77.1	79.2
82.5°	28.1	40.6	46.9	47.9	49.0
85°	17.7	21.9	24.0	22.9	22.9
87.5°	9.4	8.3	7.3	5.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)