

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: P230585

Luminaire Tested: **22CZ-LD5-29-S-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-S-UNV-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SMOOTH LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2546.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

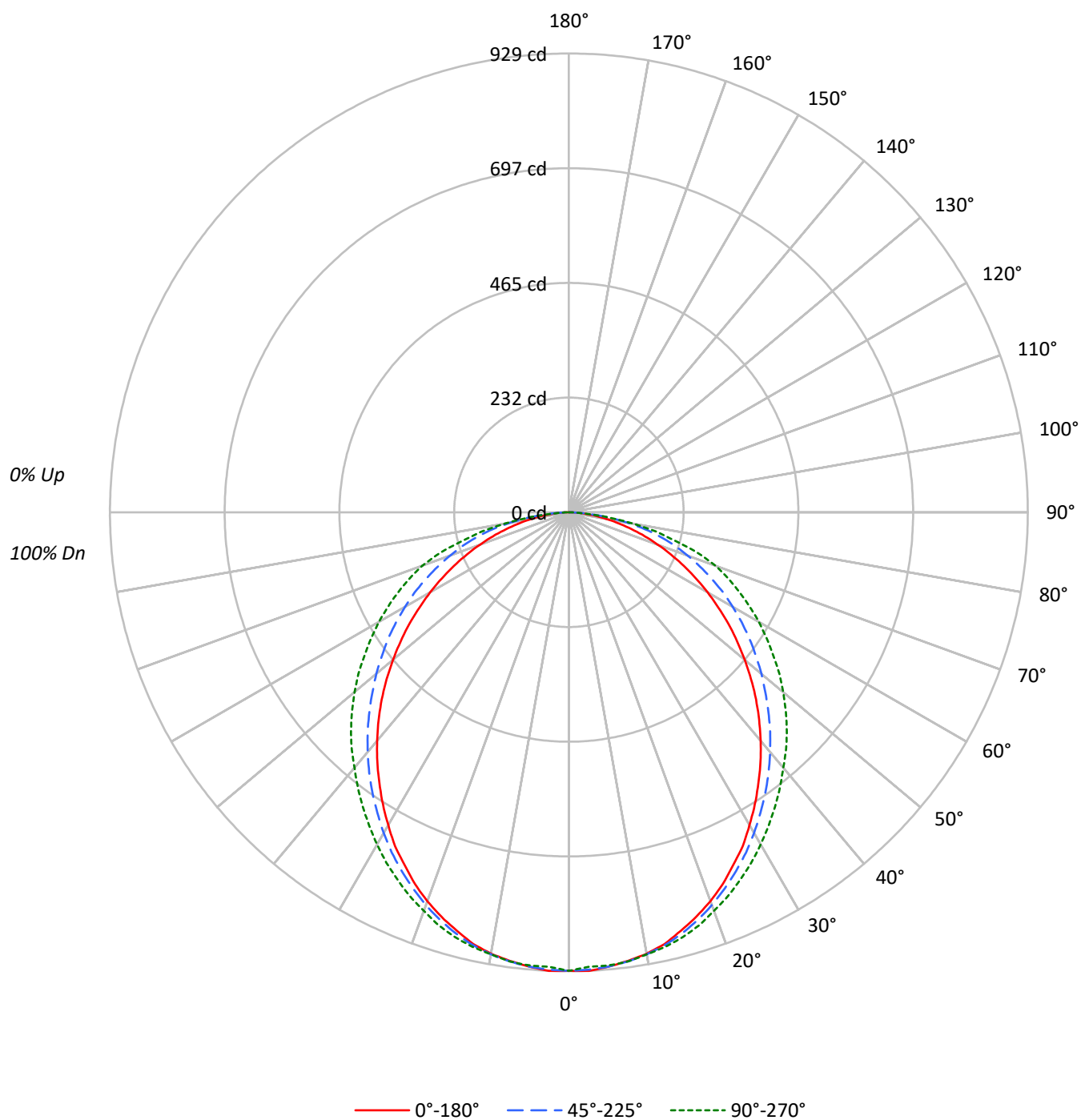
Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2498	2498	2498
5°	2494	2494	2487
10°	2479	2483	2483
15°	2443	2460	2480
20°	2399	2423	2458
25°	2338	2378	2436
30°	2272	2329	2413
35°	2197	2278	2390
40°	2122	2225	2371
45°	2038	2173	2374
50°	1945	2130	2370
55°	1853	2094	2370
60°	1744	2060	2389
65°	1635	2032	2422
70°	1511	2011	2482
75°	1360	1996	2301
80°	1193	1857	2008
85°	982	1396	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.4
10°-20°	249.0	9.8
20°-30°	369.8	14.5
30°-40°	435.3	17.1
40°-50°	443.8	17.4
50°-60°	400.3	15.7
60°-70°	315.3	12.4
70°-80°	194.5	7.6
80°-90°	50.5	2.0
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°	706.4	27.7
0°-40°	1141.8	44.8
0°-60°	1985.8	78.0
0°-90°	2546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	923	924	923	922	921	88
15°	877	880	883	888	890	247
25°	788	792	801	814	821	363
35°	669	676	693	715	728	418
45°	536	544	571	605	624	413
55°	395	408	446	487	505	352
65°	257	275	319	360	380	254
75°	131	153	192	214	221	140
85°	32	40	45	43	40	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	928.2	928.2	928.2	928.2	928.2
2.5°	929.4	929.4	926.9	924.5	920.8
5°	923.3	924.5	923.3	922.1	920.8
7.5°	915.9	917.2	917.2	917.2	917.2
10°	907.4	908.6	908.6	908.6	908.6
12.5°	895.1	896.4	897.6	898.8	901.3
15°	876.8	880.5	882.9	887.8	890.3
17.5°	858.5	862.1	865.8	871.9	876.8
20°	837.7	840.1	846.2	853.6	858.5
22.5°	814.4	818.1	824.2	834.0	841.3
25°	787.5	792.4	801.0	814.4	820.6
27.5°	761.9	765.5	776.5	791.2	799.8
30°	731.3	736.2	749.6	768.0	776.5
32.5°	700.7	706.8	721.5	742.3	752.1
35°	668.9	676.3	693.4	715.4	727.6
37.5°	637.1	644.5	664.0	688.5	701.9
40°	604.1	611.4	633.5	660.4	675.0
42.5°	569.9	578.4	602.9	633.5	650.6
45°	535.6	544.2	571.1	605.3	623.7
47.5°	500.2	509.9	539.3	577.2	595.5
50°	464.7	475.7	508.7	547.9	566.2
52.5°	429.2	441.5	476.9	517.3	536.8
55°	395.0	408.4	446.4	486.7	505.1
57.5°	358.3	374.2	414.6	453.7	474.5
60°	324.1	341.2	382.8	421.9	443.9
62.5°	289.8	308.2	352.2	391.3	412.1
65°	256.8	275.1	319.2	359.5	380.3
67.5°	223.8	244.6	287.4	327.7	348.5
70°	192.0	214.0	255.6	294.7	315.5
72.5°	161.4	183.4	225.0	261.7	273.9
75°	130.8	152.9	192.0	214.0	221.3
77.5°	102.7	123.5	157.8	171.2	181.0
80°	77.0	95.4	119.8	128.4	129.6
82.5°	52.6	68.5	83.2	84.4	83.2
85°	31.8	40.4	45.2	42.8	40.4
87.5°	14.7	15.9	14.7	9.8	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)