

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: P387795

Luminaire Tested: **22CZ2-29HE-SQR-UNV-L935-CD1-SDWPD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P387795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-542-6)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29HE-SQR-UNV-L935-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2330.8 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

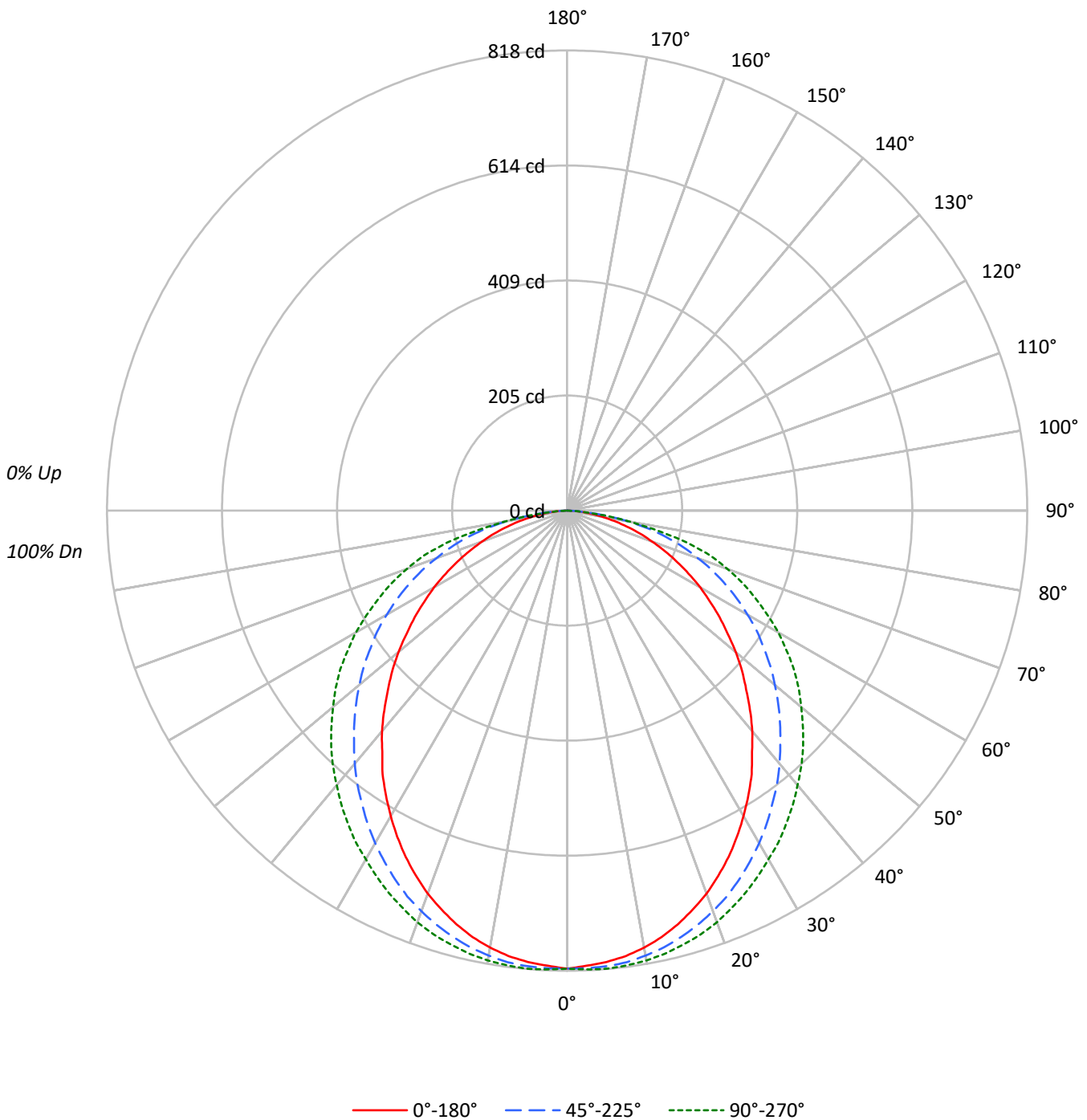
Input Watts (W): 22.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2191	2191	2191
5°	2176	2196	2208
10°	2155	2194	2219
15°	2120	2185	2225
20°	2075	2170	2230
25°	2017	2148	2227
30°	1949	2121	2224
35°	1879	2090	2231
40°	1799	2063	2238
45°	1713	2038	2257
50°	1639	2019	2274
55°	1552	2003	2310
60°	1470	1995	2334
65°	1373	1980	2353
70°	1262	1950	2385
75°	1138	1897	2301
80°	978	1680	1731
85°	784	991	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.3
10°-20°	220.7	9.5
20°-30°	331.5	14.2
30°-40°	395.3	17.0
40°-50°	408.7	17.5
50°-60°	375.8	16.1
60°-70°	299.2	12.8
70°-80°	182.8	7.8
80°-90°	39.7	1.7
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°	629.3	27.0
0°-40°	1024.7	44.0
0°-60°	1809.2	77.6
0°-90°	2330.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2330.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	805	808	813	816	818	76
15°	761	770	784	795	799	214
25°	679	696	724	743	750	312
35°	572	596	636	669	679	357
45°	450	482	535	579	593	348
55°	331	367	427	476	492	296
65°	216	252	311	354	370	214
75°	110	142	182	215	221	117
85°	25	31	32	28	25	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	814.2	814.2	814.2	814.2	814.2
2.5°	809.8	810.9	814.2	816.4	816.4
5°	805.4	807.6	813.1	816.4	817.5
7.5°	798.7	802.0	809.8	814.2	815.3
10°	788.8	793.2	803.1	809.8	812.0
12.5°	776.6	783.2	795.4	804.2	806.5
15°	761.1	770.0	784.3	795.4	798.7
17.5°	743.4	754.5	772.2	785.4	789.9
20°	724.6	735.7	757.8	773.3	778.8
22.5°	702.5	716.9	742.3	760.0	764.4
25°	679.2	695.8	723.5	743.4	750.0
27.5°	653.8	673.7	703.6	727.9	733.4
30°	627.2	648.3	682.6	709.1	715.7
32.5°	599.6	623.9	660.4	690.3	699.2
35°	571.9	596.3	636.1	669.3	679.2
37.5°	539.9	568.6	612.9	647.2	659.3
40°	512.2	539.9	587.4	625.0	637.2
42.5°	481.2	511.1	560.9	601.8	616.2
45°	450.2	482.3	535.4	578.6	593.0
47.5°	421.5	453.6	508.9	554.2	568.6
50°	391.6	424.8	482.3	528.8	543.2
52.5°	359.5	396.0	455.8	502.2	518.8
55°	330.8	367.3	427.0	475.7	492.3
57.5°	300.9	338.5	400.5	446.9	462.4
60°	273.2	309.8	370.6	416.0	433.7
62.5°	243.4	281.0	340.7	385.0	401.6
65°	215.7	252.2	310.9	354.0	369.5
67.5°	188.1	224.6	279.9	320.8	338.5
70°	160.4	196.9	247.8	287.6	303.1
72.5°	136.1	168.2	216.8	253.3	267.7
75°	109.5	141.6	182.5	214.6	221.3
77.5°	85.2	113.9	148.2	162.6	164.8
80°	63.1	85.2	108.4	111.7	111.7
82.5°	42.0	58.6	67.5	68.6	67.5
85°	25.4	31.0	32.1	27.7	25.4
87.5°	8.9	8.9	5.5	3.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)