

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: P387744

Luminaire Tested: **22CZ2-24HE-SQR-UNV-L930-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: P387744
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: 22CZ2-24HE-SQR-UNV-L930-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1867.8 lumens
Efficiency: N/A
Efficacy: 97.3 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

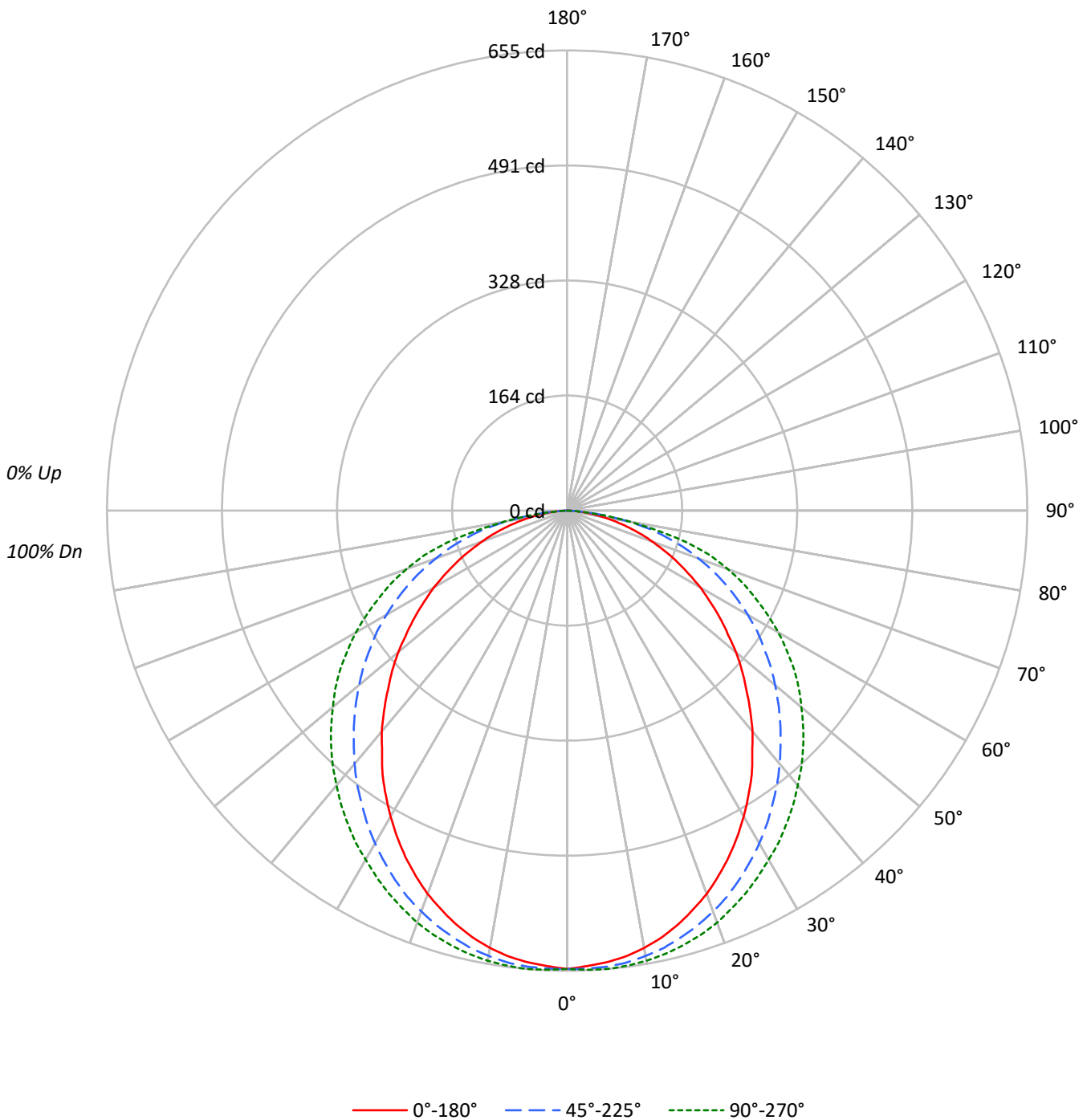
Input Watts (W): 19.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1756	1756	1756
5°	1743	1760	1770
10°	1727	1759	1778
15°	1699	1751	1783
20°	1663	1739	1787
25°	1616	1722	1785
30°	1562	1700	1782
35°	1506	1674	1788
40°	1442	1653	1794
45°	1373	1633	1808
50°	1314	1618	1822
55°	1244	1605	1851
60°	1179	1598	1870
65°	1101	1586	1885
70°	1011	1563	1911
75°	913	1521	1843
80°	783	1347	1387
85°	630	794	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	3.3
10°-20°	176.9	9.5
20°-30°	265.6	14.2
30°-40°	316.8	17.0
40°-50°	327.5	17.5
50°-60°	301.1	16.1
60°-70°	239.7	12.8
70°-80°	146.5	7.8
80°-90°	31.8	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°	504.3	27.0
0°-40°	821.1	44.0
0°-60°	1449.8	77.6
0°-90°	1867.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1867.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	645	647	652	654	655	61
15°	610	617	628	637	640	172
25°	544	558	580	596	601	250
35°	458	478	510	536	544	286
45°	361	386	429	464	475	279
55°	265	294	342	381	394	237
65°	173	202	249	284	296	171
75°	88	114	146	172	177	93
85°	20	25	26	22	20	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652.5	652.5	652.5	652.5	652.5
2.5°	648.9	649.8	652.5	654.2	654.2
5°	645.4	647.1	651.6	654.2	655.1
7.5°	640.1	642.7	648.9	652.5	653.4
10°	632.1	635.6	643.6	648.9	650.7
12.5°	622.3	627.6	637.4	644.5	646.3
15°	609.9	617.0	628.5	637.4	640.1
17.5°	595.7	604.6	618.8	629.4	633.0
20°	580.7	589.5	607.3	619.7	624.1
22.5°	562.9	574.5	594.8	609.0	612.6
25°	544.3	557.6	579.8	595.7	601.1
27.5°	523.9	539.9	563.8	583.3	587.8
30°	502.6	519.5	547.0	568.2	573.6
32.5°	480.5	500.0	529.2	553.2	560.3
35°	458.3	477.8	509.7	536.3	544.3
37.5°	432.6	455.7	491.1	518.6	528.4
40°	410.5	432.6	470.7	500.9	510.6
42.5°	385.6	409.6	449.5	482.3	493.8
45°	360.8	386.5	429.1	463.6	475.2
47.5°	337.8	363.5	407.8	444.1	455.7
50°	313.8	340.4	386.5	423.7	435.3
52.5°	288.1	317.4	365.2	402.5	415.8
55°	265.1	294.3	342.2	381.2	394.5
57.5°	241.1	271.3	320.9	358.1	370.6
60°	219.0	248.2	297.0	333.3	347.5
62.5°	195.0	225.2	273.0	308.5	321.8
65°	172.9	202.1	249.1	283.7	296.1
67.5°	150.7	180.0	224.3	257.1	271.3
70°	128.5	157.8	198.6	230.5	242.9
72.5°	109.0	134.7	173.8	203.0	214.5
75°	87.8	113.5	146.3	172.0	177.3
77.5°	68.3	91.3	118.8	130.3	132.1
80°	50.5	68.3	86.9	89.5	89.5
82.5°	33.7	47.0	54.1	55.0	54.1
85°	20.4	24.8	25.7	22.2	20.4
87.5°	7.1	7.1	4.4	2.7	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)