

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: P387755

Luminaire Tested: **22CZ2-24HE-SQR-UNV-L950-CD1-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: P387755
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-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

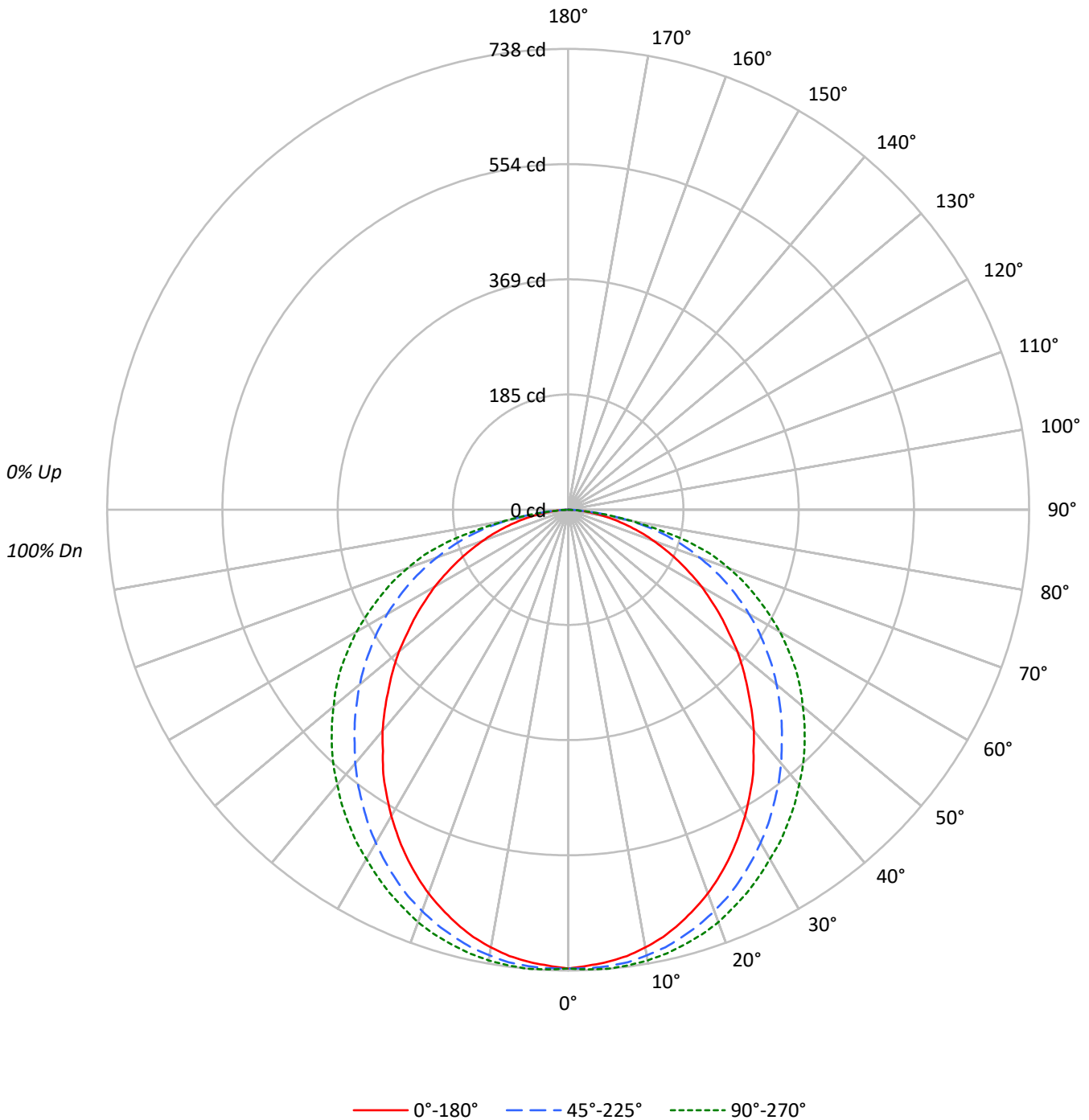
Lumens per Lamp: N/A
Luminaire Lumens: 2103.8 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1978	1978	1978
5°	1964	1982	1993
10°	1945	1981	2003
15°	1914	1972	2008
20°	1873	1959	2013
25°	1820	1939	2010
30°	1759	1914	2007
35°	1696	1886	2014
40°	1624	1862	2020
45°	1547	1839	2037
50°	1480	1823	2053
55°	1401	1808	2084
60°	1327	1800	2106
65°	1240	1787	2124
70°	1139	1760	2153
75°	1028	1713	2076
80°	882	1517	1564
85°	710	895	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	3.3
10°-20°	199.2	9.5
20°-30°	299.2	14.2
30°-40°	356.8	17.0
40°-50°	368.9	17.5
50°-60°	339.2	16.1
60°-70°	270.0	12.8
70°-80°	165.0	7.8
80°-90°	35.9	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°	568.0	27.0
0°-40°	924.9	44.0
0°-60°	1633.0	77.6
0°-90°	2103.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2103.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	727	729	734	737	738	69
15°	687	695	708	718	721	193
25°	613	628	653	671	677	282
35°	516	538	574	604	613	322
45°	406	435	483	522	535	314
55°	299	332	385	429	444	267
65°	195	228	281	320	334	193
75°	99	128	165	194	200	105
85°	23	28	29	25	23	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.9	734.9	734.9	734.9	734.9
2.5°	730.9	731.9	734.9	736.9	736.9
5°	726.9	728.9	733.9	736.9	737.9
7.5°	720.9	723.9	730.9	734.9	735.9
10°	711.9	715.9	724.9	730.9	732.9
12.5°	701.0	706.9	717.9	725.9	727.9
15°	687.0	695.0	707.9	717.9	720.9
17.5°	671.0	681.0	697.0	708.9	712.9
20°	654.0	664.0	684.0	698.0	703.0
22.5°	634.1	647.0	670.0	686.0	690.0
25°	613.1	628.1	653.0	671.0	677.0
27.5°	590.1	608.1	635.1	657.0	662.0
30°	566.2	585.1	616.1	640.0	646.0
32.5°	541.2	563.2	596.1	623.1	631.1
35°	516.2	538.2	574.1	604.1	613.1
37.5°	487.3	513.2	553.2	584.1	595.1
40°	462.3	487.3	530.2	564.2	575.1
42.5°	434.4	461.3	506.2	543.2	556.2
45°	406.4	435.4	483.3	522.2	535.2
47.5°	380.4	409.4	459.3	500.3	513.2
50°	353.5	383.4	435.4	477.3	490.3
52.5°	324.5	357.5	411.4	453.3	468.3
55°	298.6	331.5	385.4	429.4	444.3
57.5°	271.6	305.5	361.5	403.4	417.4
60°	246.6	279.6	334.5	375.4	391.4
62.5°	219.7	253.6	307.5	347.5	362.5
65°	194.7	227.7	280.6	319.5	333.5
67.5°	169.7	202.7	252.6	289.6	305.5
70°	144.8	177.7	223.7	259.6	273.6
72.5°	122.8	151.8	195.7	228.7	241.6
75°	98.9	127.8	164.8	193.7	199.7
77.5°	76.9	102.8	133.8	146.8	148.8
80°	56.9	76.9	97.9	100.9	100.9
82.5°	37.9	52.9	60.9	61.9	60.9
85°	23.0	28.0	29.0	25.0	23.0
87.5°	8.0	8.0	5.0	3.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)