

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: P230814

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-SQP-UNV-L940-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (84) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2396.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

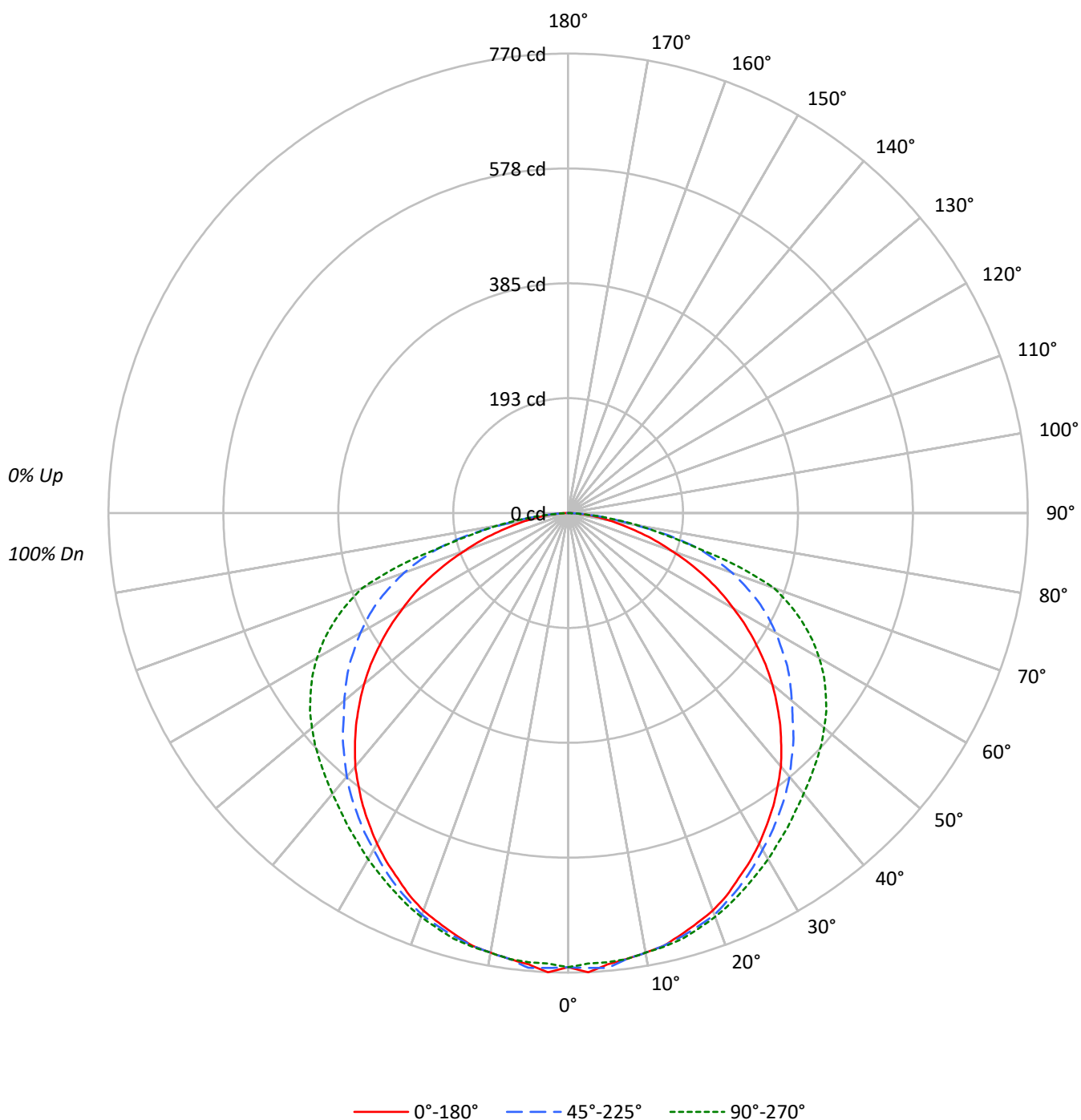
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2048	2048	2048
5°	2051	2066	2041
10°	2044	2044	2044
15°	2037	2048	2058
20°	2030	2052	2062
25°	2005	2039	2066
30°	1989	2024	2082
35°	1968	2023	2109
40°	1948	2026	2157
45°	1912	2032	2238
50°	1870	2049	2345
55°	1807	2104	2471
60°	1722	2163	2613
65°	1623	2239	2760
70°	1449	2298	2884
75°	1257	2302	2283
80°	1066	1702	1846
85°	920	1149	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	3.0
10°-20°	207.5	8.7
20°-30°	316.2	13.2
30°-40°	386.9	16.1
40°-50°	416.3	17.4
50°-60°	403.3	16.8
60°-70°	341.6	14.3
70°-80°	206.5	8.6
80°-90°	45.4	1.9
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°	596.0	24.9
0°-40°	982.9	41.0
0°-60°	1802.5	75.2
0°-90°	2396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	759	759	765	761	756	72
15°	731	733	735	737	739	206
25°	675	679	687	692	696	312
35°	599	603	616	633	642	375
45°	502	512	534	568	588	387
55°	385	402	448	500	527	344
65°	255	283	352	408	434	251
75°	121	164	221	225	220	130
85°	30	35	37	35	34	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	761.0	761.0	761.0	761.0	761.0
2.5°	770.3	768.5	762.9	759.2	755.5
5°	759.2	759.2	764.8	761.0	755.5
7.5°	753.6	753.6	753.6	762.9	753.6
10°	748.0	749.9	748.0	755.5	748.0
12.5°	742.4	742.4	742.4	744.3	744.3
15°	731.3	733.1	735.0	736.8	738.7
17.5°	720.1	722.0	725.7	727.5	729.4
20°	708.9	710.8	716.4	716.4	720.1
22.5°	694.0	694.0	701.5	703.4	708.9
25°	675.4	679.2	686.6	692.2	695.9
27.5°	658.7	662.4	669.9	677.3	682.9
30°	640.1	643.8	651.3	662.4	669.9
32.5°	619.6	623.3	634.5	647.5	655.0
35°	599.2	602.9	615.9	632.6	641.9
37.5°	576.8	582.4	597.3	615.9	627.1
40°	554.5	560.1	576.8	597.3	614.0
42.5°	528.4	535.9	554.5	582.4	601.0
45°	502.4	511.7	534.0	567.5	588.0
47.5°	474.5	483.8	509.8	552.6	575.0
50°	446.6	457.7	489.4	535.9	560.1
52.5°	416.8	428.0	468.9	519.1	545.2
55°	385.2	401.9	448.4	500.5	526.6
57.5°	353.5	372.1	424.2	480.1	508.0
60°	320.0	342.4	401.9	457.7	485.6
62.5°	288.4	312.6	377.7	433.5	461.5
65°	254.9	282.8	351.7	407.5	433.5
67.5°	219.6	254.9	321.9	375.9	401.9
70°	184.2	225.1	292.1	342.4	366.6
72.5°	152.6	195.4	258.6	301.4	301.4
75°	120.9	163.7	221.4	225.1	219.6
77.5°	93.0	134.0	173.0	158.2	161.9
80°	68.8	102.3	109.8	115.4	119.1
82.5°	46.5	68.8	70.7	74.4	74.4
85°	29.8	35.4	37.2	35.4	33.5
87.5°	13.0	14.9	11.2	7.4	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)