

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: P230810

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230810
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-LD5-34-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: 2131.0 lumens
Efficiency: N/A
Efficacy: 72.5 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

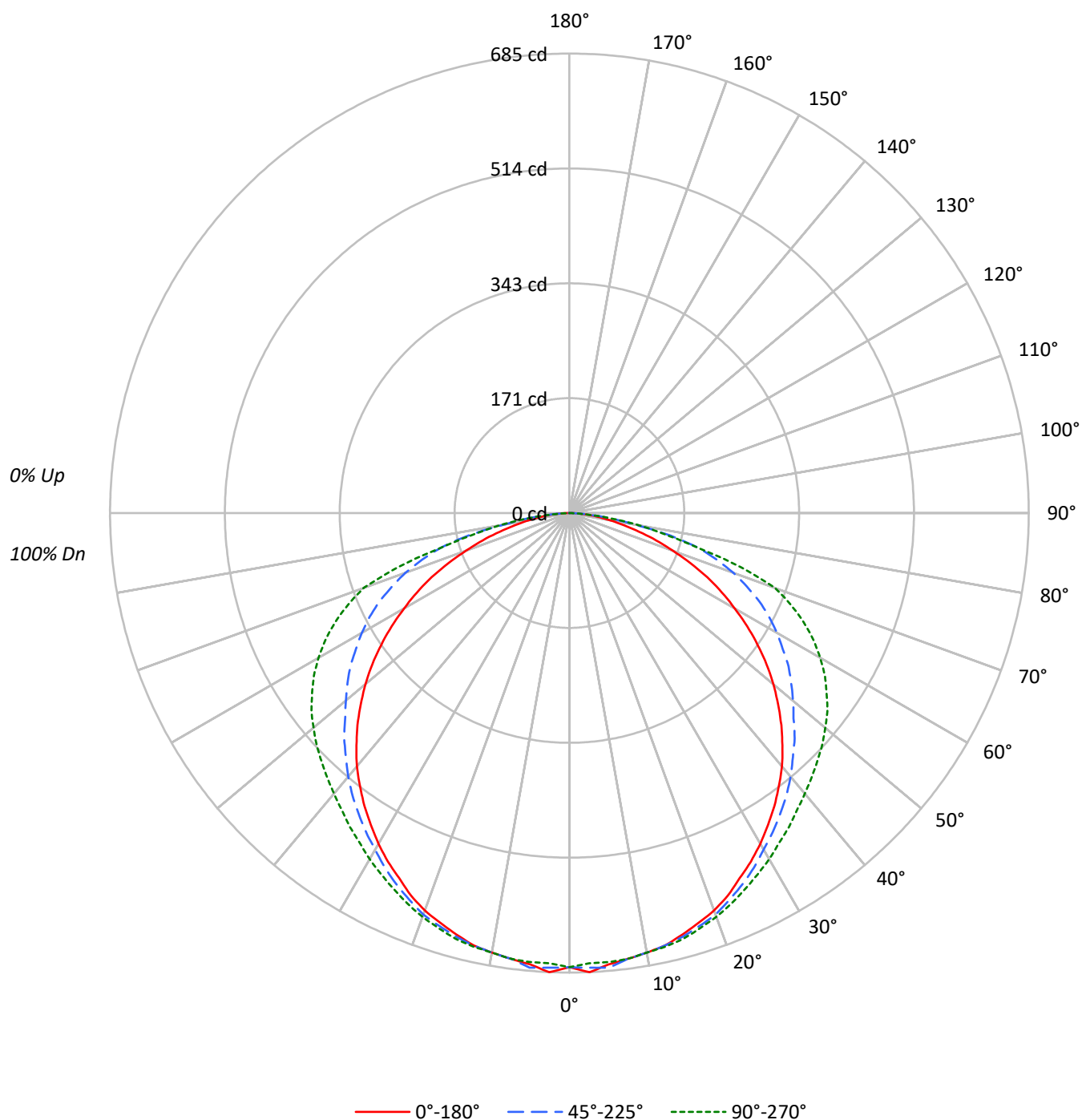
Input Watts (W): 29.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1822	1822	1822
5°	1824	1837	1815
10°	1818	1818	1818
15°	1812	1821	1830
20°	1806	1824	1834
25°	1784	1813	1838
30°	1769	1800	1851
35°	1751	1800	1875
40°	1733	1802	1918
45°	1700	1808	1990
50°	1663	1822	2085
55°	1607	1871	2197
60°	1532	1924	2324
65°	1443	1992	2455
70°	1289	2044	2565
75°	1119	2047	2031
80°	948	1512	1641
85°	818	1022	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	3.0
10°-20°	184.6	8.7
20°-30°	281.3	13.2
30°-40°	344.1	16.1
40°-50°	370.3	17.4
50°-60°	358.7	16.8
60°-70°	303.8	14.3
70°-80°	183.7	8.6
80°-90°	40.3	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°	530.1	24.9
0°-40°	874.2	41.0
0°-60°	1603.1	75.2
0°-90°	2131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	677	677	677	677	677	
5°	675	675	680	677	672	64
15°	650	652	654	655	657	184
25°	601	604	611	616	619	277
35°	533	536	548	563	571	333
45°	447	455	475	505	523	344
55°	343	358	399	445	468	306
65°	227	252	313	362	386	223
75°	108	146	197	200	195	116
85°	26	31	33	31	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.9	676.9	676.9	676.9	676.9
2.5°	685.1	683.5	678.5	675.2	671.9
5°	675.2	675.2	680.2	676.9	671.9
7.5°	670.2	670.2	670.2	678.5	670.2
10°	665.3	666.9	665.3	671.9	665.3
12.5°	660.3	660.3	660.3	662.0	662.0
15°	650.4	652.0	653.7	655.3	657.0
17.5°	640.5	642.1	645.4	647.1	648.7
20°	630.5	632.2	637.1	637.1	640.5
22.5°	617.3	617.3	623.9	625.6	630.5
25°	600.7	604.0	610.7	615.6	618.9
27.5°	585.8	589.2	595.8	602.4	607.4
30°	569.3	572.6	579.2	589.2	595.8
32.5°	551.1	554.4	564.3	575.9	582.5
35°	532.9	536.2	547.8	562.7	570.9
37.5°	513.0	518.0	531.2	547.8	557.7
40°	493.2	498.1	513.0	531.2	546.1
42.5°	470.0	476.6	493.2	518.0	534.5
45°	446.8	455.1	475.0	504.8	523.0
47.5°	422.0	430.3	453.4	491.5	511.4
50°	397.2	407.1	435.2	476.6	498.1
52.5°	370.7	380.6	417.0	461.7	484.9
55°	342.6	357.5	398.8	445.2	468.3
57.5°	314.4	331.0	377.3	427.0	451.8
60°	284.6	304.5	357.5	407.1	431.9
62.5°	256.5	278.0	335.9	385.6	410.4
65°	226.7	251.5	312.8	362.4	385.6
67.5°	195.3	226.7	286.3	334.3	357.5
70°	163.8	200.2	259.8	304.5	326.0
72.5°	135.7	173.8	230.0	268.1	268.1
75°	107.6	145.6	196.9	200.2	195.3
77.5°	82.7	119.2	153.9	140.7	144.0
80°	61.2	91.0	97.6	102.6	105.9
82.5°	41.4	61.2	62.9	66.2	66.2
85°	26.5	31.4	33.1	31.4	29.8
87.5°	11.6	13.2	9.9	6.6	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)