

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: P230811

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230811
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-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2319.0 lumens
Efficiency: N/A
Efficacy: 78.9 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

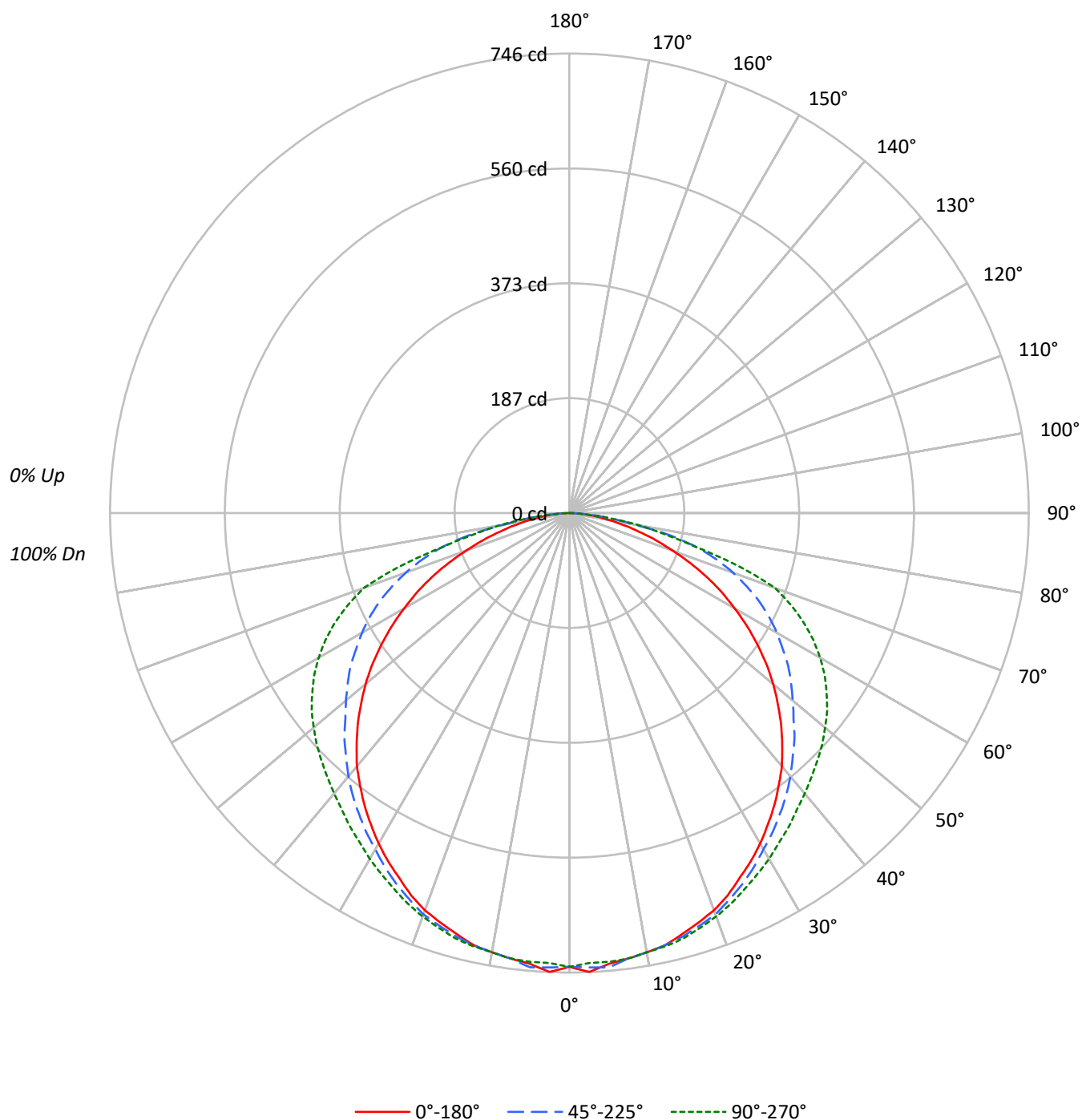
Input Watts (W): 29.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1982	1982	1982
5°	1985	1999	1975
10°	1978	1978	1978
15°	1972	1982	1992
20°	1965	1986	1996
25°	1941	1973	2000
30°	1925	1959	2014
35°	1905	1958	2041
40°	1885	1961	2088
45°	1850	1967	2166
50°	1809	1983	2269
55°	1749	2036	2391
60°	1667	2094	2530
65°	1571	2167	2672
70°	1403	2224	2792
75°	1218	2228	2209
80°	1032	1647	1787
85°	889	1112	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.0
10°-20°	200.9	8.7
20°-30°	306.1	13.2
30°-40°	374.5	16.1
40°-50°	403.0	17.4
50°-60°	390.3	16.8
60°-70°	330.6	14.3
70°-80°	199.9	8.6
80°-90°	43.9	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°	576.8	24.9
0°-40°	951.3	41.0
0°-60°	1744.6	75.2
0°-90°	2319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	735	735	740	737	731	70
15°	708	710	711	713	715	200
25°	654	657	664	670	674	302
35°	580	584	596	612	621	363
45°	486	495	517	549	569	375
55°	373	389	434	484	510	333
65°	247	274	340	394	420	243
75°	117	158	214	218	212	126
85°	29	34	36	34	32	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.6	736.6	736.6	736.6	736.6
2.5°	745.6	743.8	738.4	734.8	731.2
5°	734.8	734.8	740.2	736.6	731.2
7.5°	729.4	729.4	729.4	738.4	729.4
10°	724.0	725.8	724.0	731.2	724.0
12.5°	718.6	718.6	718.6	720.4	720.4
15°	707.8	709.6	711.4	713.2	715.0
17.5°	697.0	698.8	702.4	704.2	706.0
20°	686.2	688.0	693.4	693.4	697.0
22.5°	671.7	671.7	678.9	680.7	686.2
25°	653.7	657.3	664.5	669.9	673.5
27.5°	637.5	641.1	648.3	655.5	660.9
30°	619.5	623.1	630.3	641.1	648.3
32.5°	599.7	603.3	614.1	626.7	633.9
35°	579.9	583.5	596.1	612.3	621.3
37.5°	558.3	563.7	578.1	596.1	606.9
40°	536.7	542.1	558.3	578.1	594.3
42.5°	511.5	518.7	536.7	563.7	581.7
45°	486.2	495.3	516.9	549.3	569.1
47.5°	459.2	468.2	493.5	534.9	556.5
50°	432.2	443.0	473.6	518.7	542.1
52.5°	403.4	414.2	453.8	502.5	527.7
55°	372.8	389.0	434.0	484.4	509.7
57.5°	342.2	360.2	410.6	464.6	491.7
60°	309.8	331.4	389.0	443.0	470.0
62.5°	279.1	302.6	365.6	419.6	446.6
65°	246.7	273.7	340.4	394.4	419.6
67.5°	212.5	246.7	311.6	363.8	389.0
70°	178.3	217.9	282.7	331.4	354.8
72.5°	147.7	189.1	250.3	291.7	291.7
75°	117.1	158.5	214.3	217.9	212.5
77.5°	90.0	129.7	167.5	153.1	156.7
80°	66.6	99.1	106.3	111.7	115.3
82.5°	45.0	66.6	68.4	72.0	72.0
85°	28.8	34.2	36.0	34.2	32.4
87.5°	12.6	14.4	10.8	7.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)