

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: P230820

Luminaire Tested: **22CZ-LD5-20SE-SQP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230820
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-LD5-20SE-SQP-UNV-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (56) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1184.0 lumens
Efficiency: N/A
Efficacy: 68.8 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

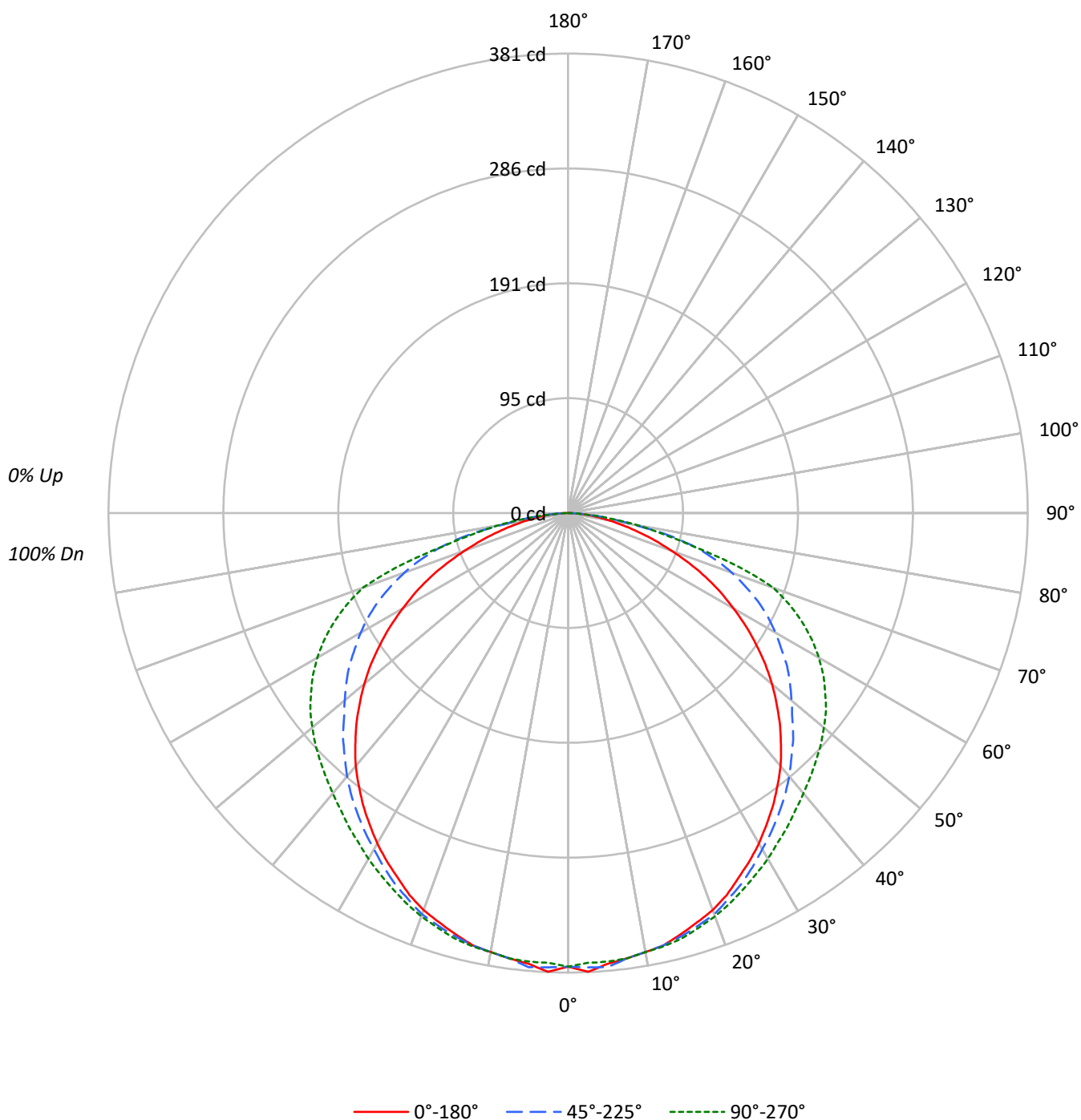
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1012	1012	1012
5°	1014	1021	1008
10°	1010	1010	1010
15°	1007	1012	1017
20°	1003	1014	1019
25°	991	1007	1021
30°	983	1000	1029
35°	973	1000	1042
40°	963	1001	1066
45°	945	1004	1106
50°	924	1012	1159
55°	893	1040	1221
60°	851	1069	1292
65°	802	1107	1364
70°	716	1136	1425
75°	622	1137	1128
80°	527	840	911
85°	454	568	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.7	3.0
10°-20°	102.5	8.7
20°-30°	156.3	13.2
30°-40°	191.2	16.1
40°-50°	205.7	17.4
50°-60°	199.3	16.8
60°-70°	168.8	14.3
70°-80°	102.0	8.6
80°-90°	22.4	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°	294.5	24.9
0°-40°	485.7	41.0
0°-60°	890.7	75.2
0°-90°	1184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	376	376	376	376	376	
5°	375	375	378	376	373	36
15°	361	362	363	364	365	102
25°	334	336	339	342	344	154
35°	296	298	304	313	317	185
45°	248	253	264	280	291	191
55°	190	199	222	247	260	170
65°	126	140	174	201	214	124
75°	60	81	109	111	108	64
85°	15	18	18	18	17	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	376.1	376.1	376.1	376.1	376.1
2.5°	380.7	379.7	377.0	375.2	373.3
5°	375.2	375.2	377.9	376.1	373.3
7.5°	372.4	372.4	372.4	377.0	372.4
10°	369.6	370.6	369.6	373.3	369.6
12.5°	366.9	366.9	366.9	367.8	367.8
15°	361.4	362.3	363.2	364.1	365.0
17.5°	355.8	356.8	358.6	359.5	360.4
20°	350.3	351.2	354.0	354.0	355.8
22.5°	343.0	343.0	346.6	347.6	350.3
25°	333.8	335.6	339.3	342.0	343.9
27.5°	325.5	327.3	331.0	334.7	337.5
30°	316.3	318.1	321.8	327.3	331.0
32.5°	306.2	308.0	313.5	320.0	323.7
35°	296.1	297.9	304.4	312.6	317.2
37.5°	285.0	287.8	295.2	304.4	309.9
40°	274.0	276.8	285.0	295.2	303.4
42.5°	261.1	264.8	274.0	287.8	297.0
45°	248.3	252.9	263.9	280.4	290.6
47.5°	234.5	239.1	251.9	273.1	284.1
50°	220.7	226.2	241.8	264.8	276.8
52.5°	206.0	211.5	231.7	256.5	269.4
55°	190.3	198.6	221.6	247.3	260.2
57.5°	174.7	183.9	209.6	237.2	251.0
60°	158.2	169.2	198.6	226.2	240.0
62.5°	142.5	154.5	186.7	214.2	228.0
65°	126.0	139.8	173.8	201.4	214.2
67.5°	108.5	126.0	159.1	185.7	198.6
70°	91.0	111.3	144.4	169.2	181.1
72.5°	75.4	96.5	127.8	149.0	149.0
75°	59.8	80.9	109.4	111.3	108.5
77.5°	46.0	66.2	85.5	78.2	80.0
80°	34.0	50.6	54.2	57.0	58.8
82.5°	23.0	34.0	34.9	36.8	36.8
85°	14.7	17.5	18.4	17.5	16.6
87.5°	6.4	7.4	5.5	3.7	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)