

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: P260246

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260246
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-LD5-20-SQP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1052.0 lumens
Efficiency: N/A
Efficacy: 66.2 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

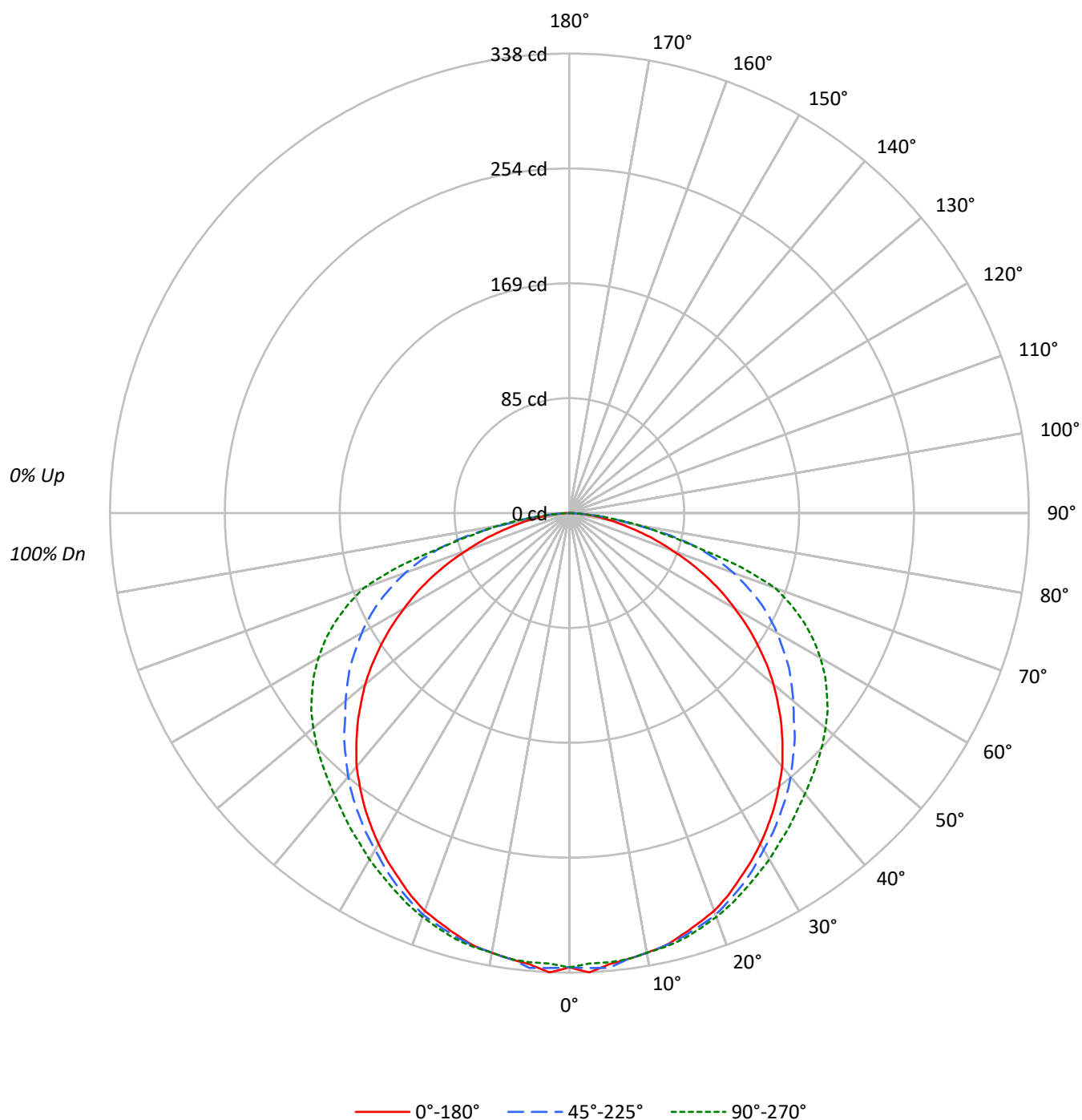
Input Watts (W): 15.888213
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	899	899	899
5°	900	907	896
10°	897	897	897
15°	895	899	903
20°	891	901	905
25°	881	895	907
30°	873	888	914
35°	864	888	926
40°	855	890	947
45°	840	892	983
50°	821	900	1029
55°	793	924	1085
60°	756	950	1147
65°	713	983	1212
70°	637	1009	1266
75°	552	1011	1002
80°	468	747	810
85°	404	503	454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	3.0
10°-20°	91.1	8.7
20°-30°	138.8	13.2
30°-40°	169.9	16.1
40°-50°	182.8	17.4
50°-60°	177.1	16.8
60°-70°	150.0	14.3
70°-80°	90.7	8.6
80°-90°	19.9	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°	261.7	24.9
0°-40°	431.6	41.0
0°-60°	791.4	75.2
0°-90°	1052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	334	334	334	334	334	
5°	333	333	336	334	332	32
15°	321	322	323	324	324	91
25°	297	298	302	304	306	137
35°	263	265	270	278	282	165
45°	221	225	234	249	258	170
55°	169	176	197	220	231	151
65°	112	124	154	179	190	110
75°	53	72	97	99	96	57
85°	13	16	16	16	15	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	334.1	334.1	334.1	334.1	334.1
2.5°	338.2	337.4	335.0	333.3	331.7
5°	333.3	333.3	335.8	334.1	331.7
7.5°	330.9	330.9	330.9	335.0	330.9
10°	328.4	329.2	328.4	331.7	328.4
12.5°	326.0	326.0	326.0	326.8	326.8
15°	321.1	321.9	322.7	323.5	324.3
17.5°	316.2	317.0	318.6	319.4	320.3
20°	311.3	312.1	314.5	314.5	316.2
22.5°	304.7	304.7	308.0	308.8	311.3
25°	296.6	298.2	301.5	303.9	305.5
27.5°	289.2	290.8	294.1	297.4	299.8
30°	281.0	282.7	285.9	290.8	294.1
32.5°	272.1	273.7	278.6	284.3	287.6
35°	263.1	264.7	270.4	277.8	281.9
37.5°	253.3	255.7	262.2	270.4	275.3
40°	243.5	245.9	253.3	262.2	269.6
42.5°	232.0	235.3	243.5	255.7	263.9
45°	220.6	224.7	234.5	249.2	258.2
47.5°	208.3	212.4	223.9	242.6	252.4
50°	196.1	201.0	214.9	235.3	245.9
52.5°	183.0	187.9	205.9	227.9	239.4
55°	169.1	176.5	196.9	219.8	231.2
57.5°	155.2	163.4	186.3	210.8	223.0
60°	140.5	150.3	176.5	201.0	213.2
62.5°	126.6	137.3	165.8	190.4	202.6
65°	111.9	124.2	154.4	178.9	190.4
67.5°	96.4	111.9	141.3	165.0	176.5
70°	80.9	98.9	128.3	150.3	160.9
72.5°	67.0	85.8	113.6	132.4	132.4
75°	53.1	71.9	97.2	98.9	96.4
77.5°	40.8	58.8	76.0	69.4	71.1
80°	30.2	44.9	48.2	50.7	52.3
82.5°	20.4	30.2	31.0	32.7	32.7
85°	13.1	15.5	16.3	15.5	14.7
87.5°	5.7	6.5	4.9	3.3	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)