

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: P260247

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260247
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1149.0 lumens
Efficiency: N/A
Efficacy: 72.6 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

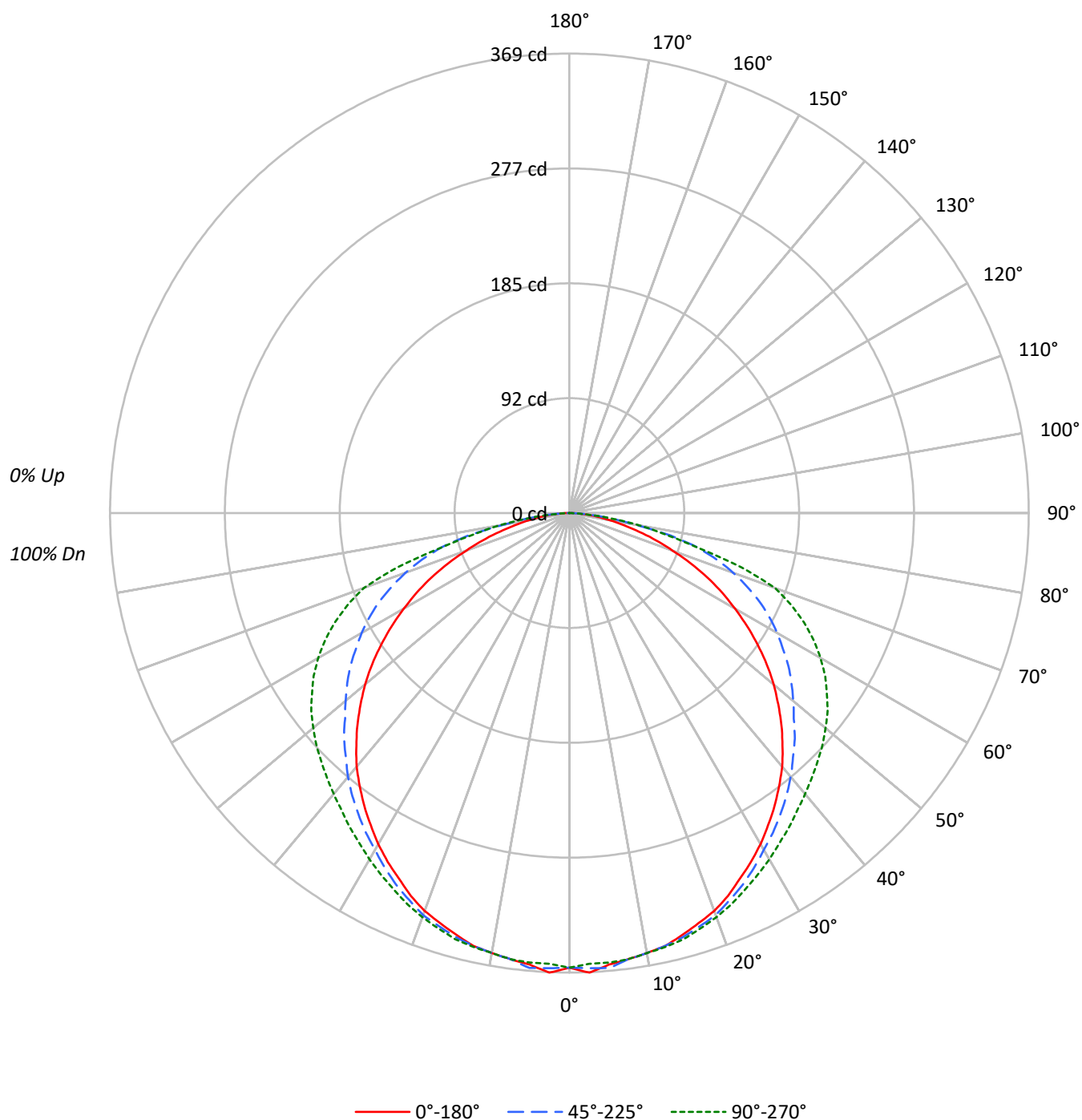
Input Watts (W): 15.826089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	982	982	982
5°	984	991	979
10°	980	980	980
15°	977	982	987
20°	974	984	989
25°	962	978	991
30°	954	970	998
35°	944	970	1011
40°	934	972	1035
45°	917	975	1073
50°	897	983	1124
55°	867	1009	1185
60°	826	1037	1253
65°	778	1074	1324
70°	695	1102	1383
75°	603	1104	1095
80°	511	815	885
85°	442	550	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	3.0
10°-20°	99.5	8.7
20°-30°	151.6	13.2
30°-40°	185.5	16.1
40°-50°	199.6	17.4
50°-60°	193.4	16.8
60°-70°	163.8	14.3
70°-80°	99.0	8.6
80°-90°	21.8	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°	285.8	24.9
0°-40°	471.4	41.0
0°-60°	864.4	75.2
0°-90°	1149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	365	365	365	365	365	
5°	364	364	367	365	362	35
15°	351	352	352	353	354	99
25°	324	326	329	332	334	150
35°	287	289	295	303	308	180
45°	241	245	256	272	282	186
55°	185	193	215	240	252	165
65°	122	136	169	195	208	120
75°	58	78	106	108	105	62
85°	14	17	18	17	16	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	365.0	365.0	365.0	365.0	365.0
2.5°	369.4	368.5	365.8	364.1	362.3
5°	364.1	364.1	366.7	365.0	362.3
7.5°	361.4	361.4	361.4	365.8	361.4
10°	358.7	359.6	358.7	362.3	358.7
12.5°	356.0	356.0	356.0	356.9	356.9
15°	350.7	351.6	352.5	353.4	354.2
17.5°	345.3	346.2	348.0	348.9	349.8
20°	340.0	340.9	343.5	343.5	345.3
22.5°	332.8	332.8	336.4	337.3	340.0
25°	323.9	325.7	329.3	331.9	333.7
27.5°	315.9	317.7	321.2	324.8	327.5
30°	307.0	308.7	312.3	317.7	321.2
32.5°	297.1	298.9	304.3	310.5	314.1
35°	287.3	289.1	295.4	303.4	307.8
37.5°	276.6	279.3	286.4	295.4	300.7
40°	265.9	268.6	276.6	286.4	294.5
42.5°	253.4	257.0	265.9	279.3	288.2
45°	240.9	245.4	256.1	272.2	282.0
47.5°	227.5	232.0	244.5	265.0	275.7
50°	214.2	219.5	234.7	257.0	268.6
52.5°	199.9	205.2	224.9	249.0	261.4
55°	184.7	192.7	215.0	240.0	252.5
57.5°	169.5	178.5	203.4	230.2	243.6
60°	153.5	164.2	192.7	219.5	232.9
62.5°	138.3	149.9	181.1	207.9	221.3
65°	122.2	135.6	168.6	195.4	207.9
67.5°	105.3	122.2	154.4	180.2	192.7
70°	88.3	108.0	140.1	164.2	175.8
72.5°	73.2	93.7	124.0	144.6	144.6
75°	58.0	78.5	106.2	108.0	105.3
77.5°	44.6	64.2	83.0	75.8	77.6
80°	33.0	49.1	52.6	55.3	57.1
82.5°	22.3	33.0	33.9	35.7	35.7
85°	14.3	17.0	17.8	17.0	16.1
87.5°	6.2	7.1	5.4	3.6	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)