

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: P260340

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260340
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-LD5-24-SQP-UNV-L92765-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: 1243.0 lumens
Efficiency: N/A
Efficacy: 71.5 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

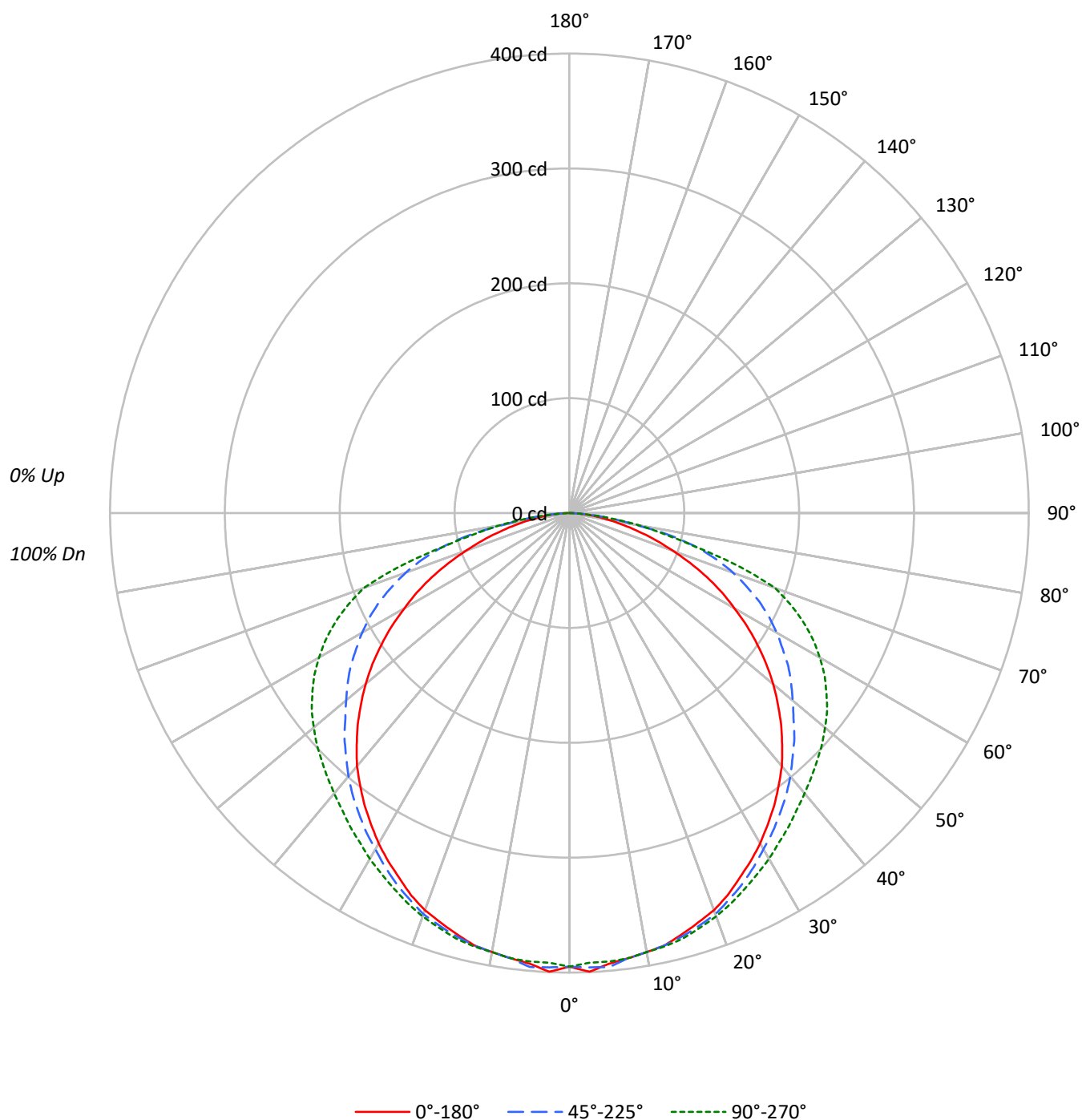
Input Watts (W): 17.391
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1062	1062	1062
5°	1064	1072	1059
10°	1060	1060	1060
15°	1057	1062	1068
20°	1053	1064	1070
25°	1040	1058	1072
30°	1032	1050	1080
35°	1021	1050	1094
40°	1011	1051	1119
45°	992	1054	1161
50°	970	1063	1217
55°	937	1091	1282
60°	893	1122	1356
65°	842	1161	1432
70°	752	1193	1496
75°	652	1195	1184
80°	553	883	958
85°	475	596	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	3.0
10°-20°	107.7	8.7
20°-30°	164.1	13.2
30°-40°	200.7	16.1
40°-50°	216.0	17.4
50°-60°	209.2	16.8
60°-70°	177.2	14.3
70°-80°	107.1	8.6
80°-90°	23.5	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°	309.2	24.9
0°-40°	509.9	41.0
0°-60°	935.1	75.2
0°-90°	1243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	395	395	395	395	395	
5°	394	394	397	395	392	37
15°	379	380	381	382	383	107
25°	350	352	356	359	361	162
35°	311	313	320	328	333	194
45°	261	266	277	294	305	201
55°	200	208	233	260	273	178
65°	132	147	182	211	225	130
75°	63	85	115	117	114	67
85°	15	18	19	18	17	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	394.8	394.8	394.8	394.8	394.8
2.5°	399.6	398.7	395.8	393.8	391.9
5°	393.8	393.8	396.7	394.8	391.9
7.5°	390.9	390.9	390.9	395.8	390.9
10°	388.1	389.0	388.1	391.9	388.1
12.5°	385.2	385.2	385.2	386.1	386.1
15°	379.4	380.3	381.3	382.3	383.2
17.5°	373.6	374.5	376.5	377.4	378.4
20°	367.8	368.7	371.6	371.6	373.6
22.5°	360.1	360.1	363.9	364.9	367.8
25°	350.4	352.3	356.2	359.1	361.0
27.5°	341.7	343.6	347.5	351.4	354.3
30°	332.1	334.0	337.9	343.6	347.5
32.5°	321.4	323.4	329.2	335.9	339.8
35°	310.8	312.8	319.5	328.2	333.0
37.5°	299.2	302.1	309.9	319.5	325.3
40°	287.7	290.6	299.2	309.9	318.6
42.5°	274.1	278.0	287.7	302.1	311.8
45°	260.6	265.5	277.0	294.4	305.0
47.5°	246.2	251.0	264.5	286.7	298.3
50°	231.7	237.5	253.9	278.0	290.6
52.5°	216.2	222.0	243.3	269.3	282.8
55°	199.8	208.5	232.6	259.7	273.2
57.5°	183.4	193.1	220.1	249.0	263.5
60°	166.0	177.6	208.5	237.5	251.9
62.5°	149.6	162.2	196.0	224.9	239.4
65°	132.2	146.7	182.4	211.4	224.9
67.5°	113.9	132.2	167.0	195.0	208.5
70°	95.6	116.8	151.6	177.6	190.2
72.5°	79.2	101.4	134.2	156.4	156.4
75°	62.7	84.9	114.9	116.8	113.9
77.5°	48.3	69.5	89.8	82.1	84.0
80°	35.7	53.1	57.0	59.8	61.8
82.5°	24.1	35.7	36.7	38.6	38.6
85°	15.4	18.3	19.3	18.3	17.4
87.5°	6.8	7.7	5.8	3.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)