

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: P260252

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260252
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-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: 1297.0 lumens
Efficiency: N/A
Efficacy: 72.4 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

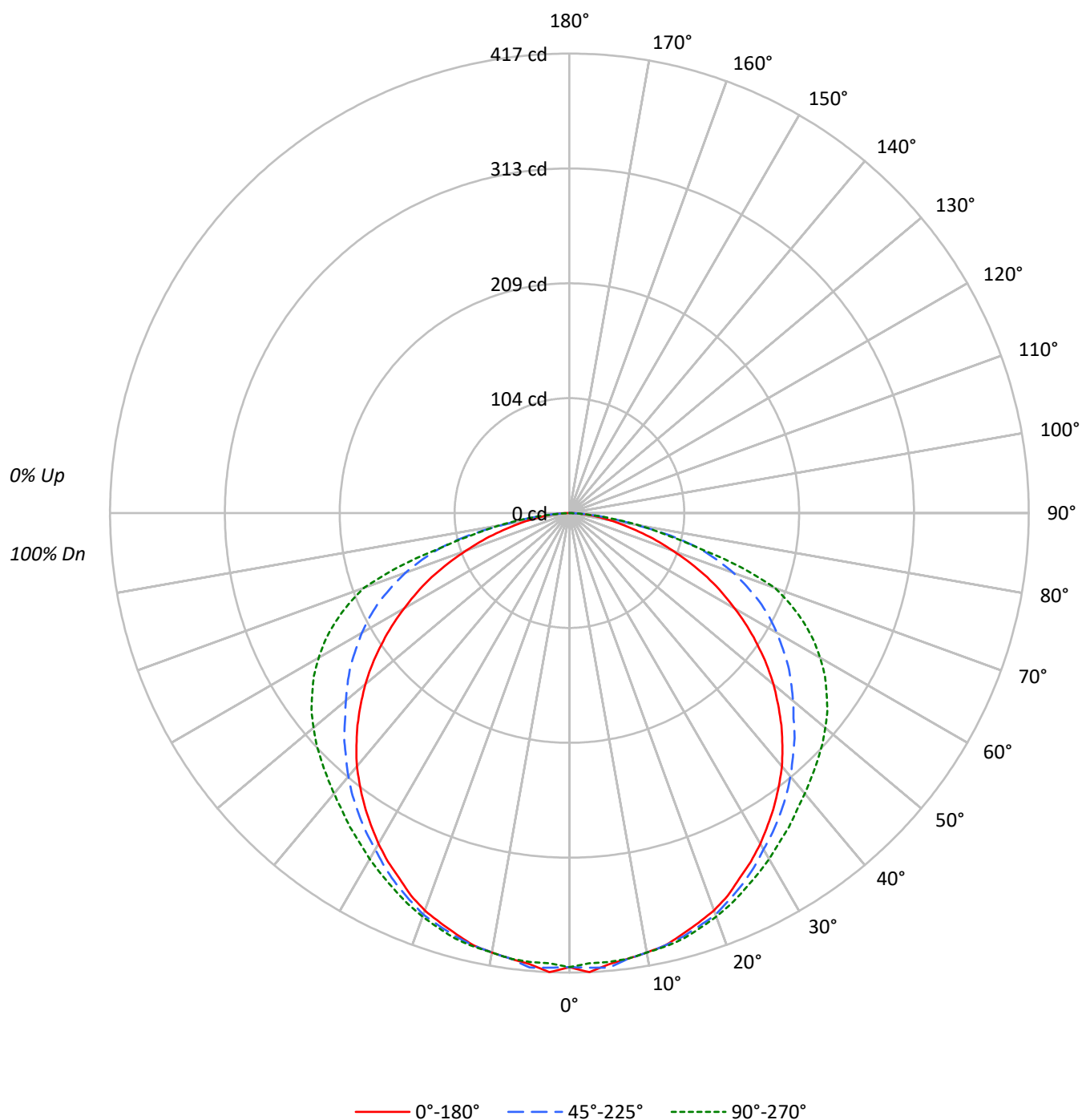
Input Watts (W): 17.910963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1109	1109	1109
5°	1110	1118	1105
10°	1106	1106	1106
15°	1103	1109	1114
20°	1099	1111	1116
25°	1086	1104	1118
30°	1077	1095	1127
35°	1065	1095	1142
40°	1055	1097	1168
45°	1035	1100	1211
50°	1012	1109	1269
55°	978	1139	1337
60°	932	1171	1415
65°	879	1212	1494
70°	784	1244	1561
75°	681	1247	1236
80°	578	921	1000
85°	497	621	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	3.0
10°-20°	112.3	8.7
20°-30°	171.2	13.2
30°-40°	209.4	16.1
40°-50°	225.4	17.4
50°-60°	218.3	16.8
60°-70°	184.9	14.3
70°-80°	111.8	8.6
80°-90°	24.6	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°	322.6	24.9
0°-40°	532.1	41.0
0°-60°	975.7	75.2
0°-90°	1297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	411	411	414	412	409	39
15°	396	397	398	399	400	112
25°	366	368	372	375	377	169
35°	324	326	333	342	348	203
45°	272	277	289	307	318	210
55°	208	218	243	271	285	186
65°	138	153	190	221	235	136
75°	66	89	120	122	119	70
85°	16	19	20	19	18	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	412.0	412.0	412.0	412.0	412.0
2.5°	417.0	416.0	413.0	411.0	408.9
5°	411.0	411.0	414.0	412.0	408.9
7.5°	407.9	407.9	407.9	413.0	407.9
10°	404.9	405.9	404.9	408.9	404.9
12.5°	401.9	401.9	401.9	402.9	402.9
15°	395.8	396.9	397.9	398.9	399.9
17.5°	389.8	390.8	392.8	393.8	394.8
20°	383.8	384.8	387.8	387.8	389.8
22.5°	375.7	375.7	379.7	380.7	383.8
25°	365.6	367.6	371.7	374.7	376.7
27.5°	356.6	358.6	362.6	366.6	369.7
30°	346.5	348.5	352.5	358.6	362.6
32.5°	335.4	337.4	343.5	350.5	354.5
35°	324.3	326.3	333.4	342.5	347.5
37.5°	312.2	315.3	323.3	333.4	339.4
40°	300.2	303.2	312.2	323.3	332.4
42.5°	286.1	290.1	300.2	315.3	325.3
45°	272.0	277.0	289.1	307.2	318.3
47.5°	256.8	261.9	276.0	299.2	311.2
50°	241.7	247.8	264.9	290.1	303.2
52.5°	225.6	231.7	253.8	281.0	295.1
55°	208.5	217.6	242.7	270.9	285.0
57.5°	191.4	201.4	229.7	259.9	275.0
60°	173.2	185.3	217.6	247.8	262.9
62.5°	156.1	169.2	204.5	234.7	249.8
65°	138.0	153.1	190.4	220.6	234.7
67.5°	118.9	138.0	174.3	203.5	217.6
70°	99.7	121.9	158.1	185.3	198.4
72.5°	82.6	105.8	140.0	163.2	163.2
75°	65.5	88.6	119.9	121.9	118.9
77.5°	50.4	72.5	93.7	85.6	87.6
80°	37.3	55.4	59.4	62.4	64.5
82.5°	25.2	37.3	38.3	40.3	40.3
85°	16.1	19.1	20.1	19.1	18.1
87.5°	7.1	8.1	6.0	4.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)