

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: P260249

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260249
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-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1263.0 lumens
Efficiency: N/A
Efficacy: 78.0 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

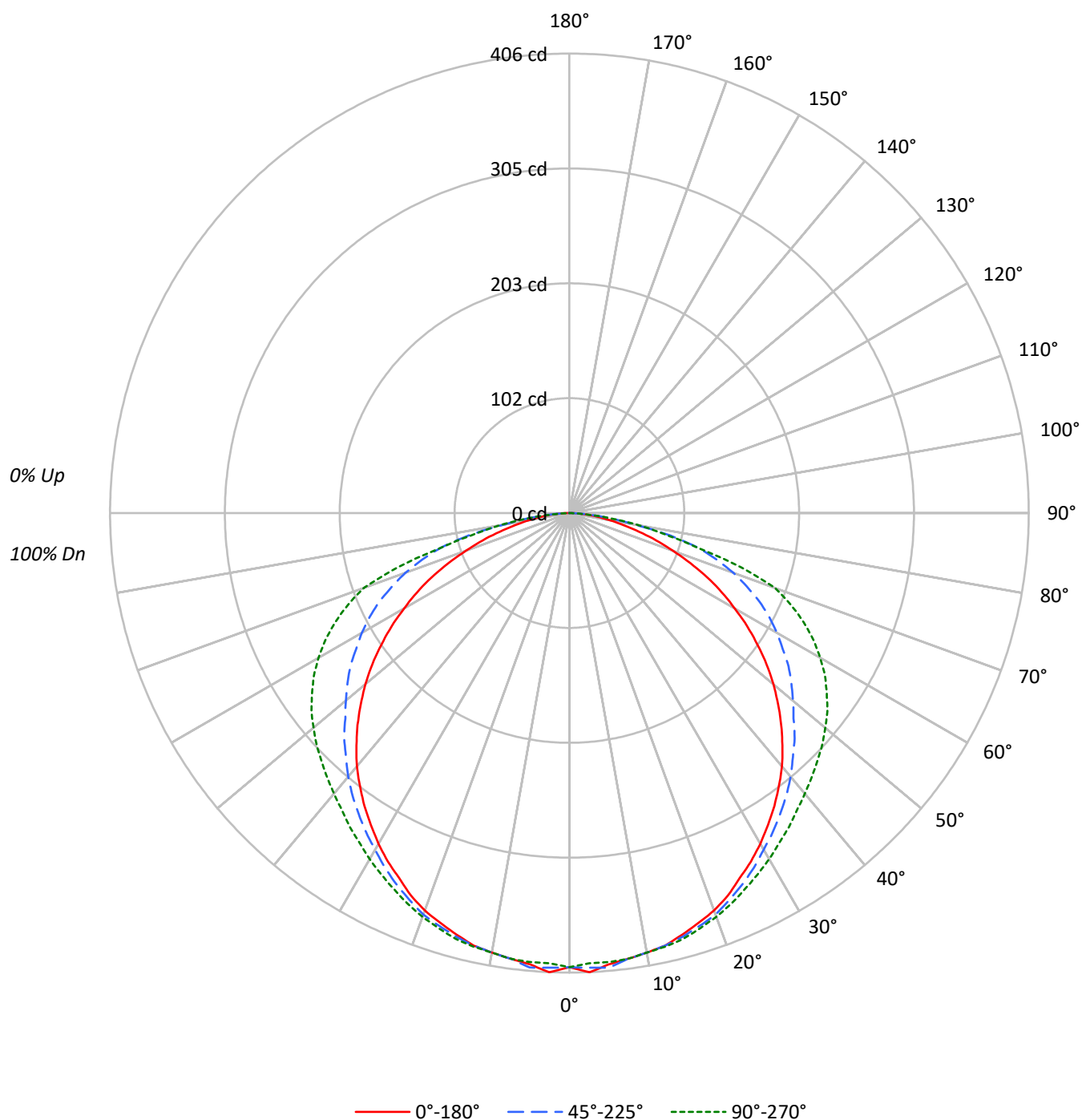
Input Watts (W): 16.183302
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1080	1080	1080
5°	1081	1089	1076
10°	1077	1077	1077
15°	1074	1079	1085
20°	1070	1081	1087
25°	1057	1075	1089
30°	1048	1067	1097
35°	1037	1067	1112
40°	1027	1068	1137
45°	1008	1071	1179
50°	985	1080	1236
55°	952	1109	1302
60°	908	1140	1378
65°	856	1181	1455
70°	764	1212	1520
75°	663	1213	1203
80°	563	897	973
85°	485	605	546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	3.0
10°-20°	109.4	8.7
20°-30°	166.7	13.2
30°-40°	204.0	16.1
40°-50°	219.5	17.4
50°-60°	212.6	16.8
60°-70°	180.1	14.3
70°-80°	108.8	8.6
80°-90°	23.9	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°	314.2	24.9
0°-40°	518.1	41.0
0°-60°	950.2	75.2
0°-90°	1263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	401	401	401	401	401	
5°	400	400	403	401	398	38
15°	386	386	387	388	389	109
25°	356	358	362	365	367	164
35°	316	318	325	334	338	198
45°	265	270	282	299	310	204
55°	203	212	236	264	278	181
65°	134	149	185	215	228	132
75°	64	86	117	119	116	68
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°	401.2	401.2	401.2	401.2	401.2
2.5°	406.1	405.1	402.1	400.2	398.2
5°	400.2	400.2	403.1	401.2	398.2
7.5°	397.2	397.2	397.2	402.1	397.2
10°	394.3	395.3	394.3	398.2	394.3
12.5°	391.4	391.4	391.4	392.3	392.3
15°	385.5	386.5	387.4	388.4	389.4
17.5°	379.6	380.6	382.5	383.5	384.5
20°	373.7	374.7	377.6	377.6	379.6
22.5°	365.9	365.9	369.8	370.8	373.7
25°	356.0	358.0	361.9	364.9	366.8
27.5°	347.2	349.2	353.1	357.0	360.0
30°	337.4	339.4	343.3	349.2	353.1
32.5°	326.6	328.6	334.5	341.3	345.3
35°	315.8	317.8	324.7	333.5	338.4
37.5°	304.1	307.0	314.8	324.7	330.5
40°	292.3	295.2	304.1	314.8	323.7
42.5°	278.6	282.5	292.3	307.0	316.8
45°	264.8	269.7	281.5	299.2	309.9
47.5°	250.1	255.0	268.7	291.3	303.1
50°	235.4	241.3	258.0	282.5	295.2
52.5°	219.7	225.6	247.2	273.7	287.4
55°	203.0	211.9	236.4	263.8	277.6
57.5°	186.4	196.2	223.6	253.1	267.8
60°	168.7	180.5	211.9	241.3	256.0
62.5°	152.0	164.8	199.1	228.5	243.2
65°	134.4	149.1	185.4	214.8	228.5
67.5°	115.7	134.4	169.7	198.1	211.9
70°	97.1	118.7	154.0	180.5	193.2
72.5°	80.4	103.0	136.3	158.9	158.9
75°	63.8	86.3	116.7	118.7	115.7
77.5°	49.0	70.6	91.2	83.4	85.3
80°	36.3	53.9	57.9	60.8	62.8
82.5°	24.5	36.3	37.3	39.2	39.2
85°	15.7	18.6	19.6	18.6	17.7
87.5°	6.9	7.8	5.9	3.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)