

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: P260418

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-RDP-UNV-L93050-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1487.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

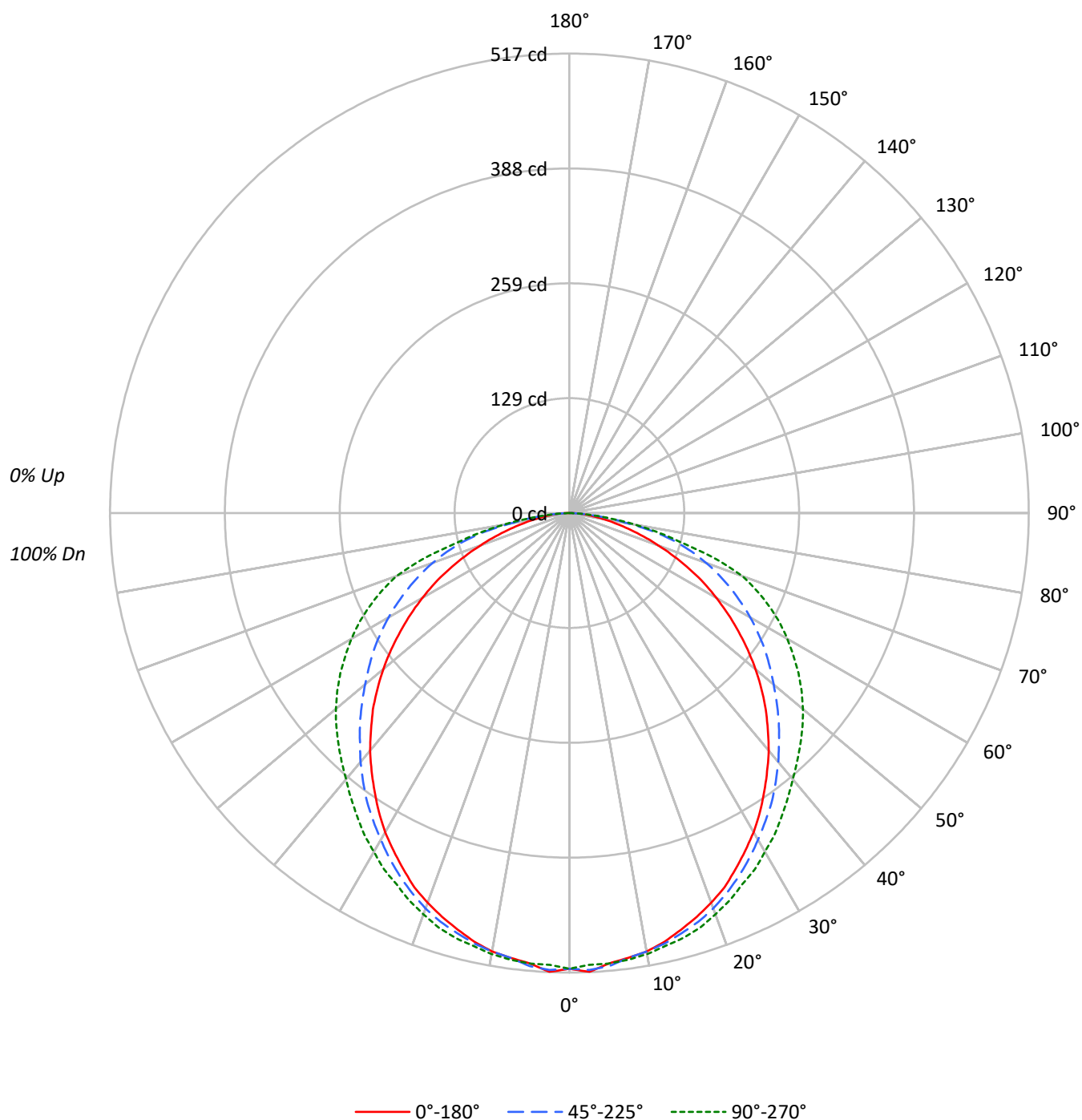
Input Watts (W): 16.183302
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	81	76	84	79	74		81	77	73		69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1380	1380	1380
5°	1374	1382	1374
10°	1369	1369	1377
15°	1352	1363	1379
20°	1336	1356	1375
25°	1313	1339	1368
30°	1288	1319	1368
35°	1256	1304	1369
40°	1226	1284	1374
45°	1190	1268	1399
50°	1145	1256	1436
55°	1090	1260	1476
60°	1028	1266	1525
65°	949	1273	1579
70°	840	1288	1627
75°	713	1284	1386
80°	592	1034	1155
85°	516	695	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	3.3
10°-20°	138.2	9.3
20°-30°	207.9	14.0
30°-40°	249.1	16.8
40°-50°	259.8	17.5
50°-60°	241.8	16.3
60°-70°	196.4	13.2
70°-80°	118.3	8.0
80°-90°	27.1	1.8
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°	394.5	26.5
0°-40°	643.5	43.3
0°-60°	1145.2	77.0
0°-90°	1487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	509	509	512	513	509	48
15°	485	487	489	492	495	137
25°	442	445	451	457	461	204
35°	382	387	397	409	417	239
45°	313	319	333	355	368	241
55°	232	242	269	298	315	208
65°	149	165	200	231	248	147
75°	69	91	124	131	133	74
85°	17	21	22	22	22	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	512.7	512.7	512.7	512.7	512.7
2.5°	516.6	515.6	514.6	511.7	508.7
5°	508.7	508.7	511.7	512.7	508.7
7.5°	504.8	504.8	504.8	508.7	506.8
10°	500.9	500.9	500.9	503.8	503.8
12.5°	494.0	495.0	496.0	497.0	498.9
15°	485.2	487.2	489.1	492.1	495.0
17.5°	476.4	478.4	482.3	485.2	489.1
20°	466.6	468.6	473.5	476.4	480.3
22.5°	455.8	456.8	462.7	466.6	471.5
25°	442.1	445.0	450.9	456.8	460.7
27.5°	428.4	431.3	438.2	446.0	451.9
30°	414.6	417.6	424.4	434.2	440.1
32.5°	399.0	402.9	410.7	422.5	429.3
35°	382.3	387.2	397.0	408.8	416.6
37.5°	365.6	370.5	381.3	396.0	403.9
40°	349.0	353.9	365.6	381.3	391.1
42.5°	330.3	336.2	349.0	367.6	379.4
45°	312.7	318.6	333.3	354.8	367.6
47.5°	293.1	300.0	316.6	341.1	355.8
50°	273.5	281.3	300.0	327.4	343.1
52.5°	252.9	261.7	284.3	312.7	329.4
55°	232.3	242.1	268.6	298.0	314.7
57.5°	211.7	222.5	251.9	282.3	299.0
60°	191.1	202.9	235.3	266.6	283.3
62.5°	170.6	183.3	217.6	249.0	266.6
65°	149.0	164.7	200.0	231.3	248.0
67.5°	127.4	146.1	182.3	212.7	228.4
70°	106.8	127.4	163.7	192.1	206.8
72.5°	87.2	108.8	144.1	168.6	174.5
75°	68.6	91.2	123.5	131.4	133.3
77.5°	52.9	73.5	98.0	100.0	104.9
80°	38.2	55.9	66.7	72.5	74.5
82.5°	26.5	38.2	44.1	45.1	46.1
85°	16.7	20.6	22.5	21.6	21.6
87.5°	8.8	7.8	6.9	4.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)