

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: P260385

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260385
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-L83050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1592.0 lumens
Efficiency: N/A
Efficacy: 102.5 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

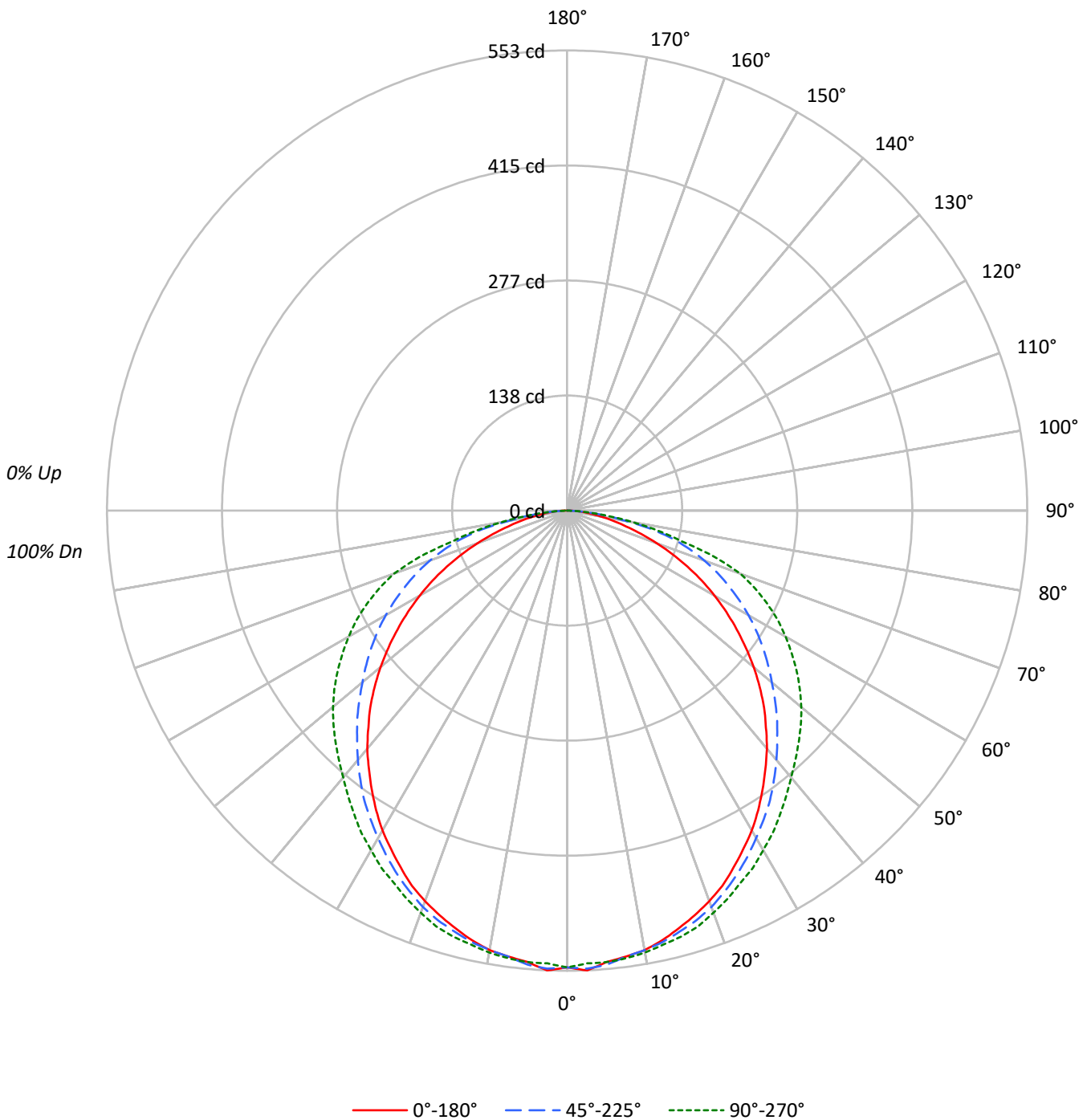
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1477	1477	1477
5°	1471	1480	1471
10°	1465	1465	1474
15°	1447	1459	1477
20°	1430	1452	1473
25°	1405	1433	1464
30°	1379	1412	1464
35°	1345	1396	1465
40°	1312	1375	1471
45°	1274	1358	1498
50°	1226	1344	1538
55°	1167	1349	1581
60°	1101	1356	1632
65°	1016	1363	1691
70°	900	1379	1742
75°	764	1375	1484
80°	634	1106	1237
85°	550	744	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	3.3
10°-20°	147.9	9.3
20°-30°	222.5	14.0
30°-40°	266.7	16.8
40°-50°	278.1	17.5
50°-60°	258.9	16.3
60°-70°	210.2	13.2
70°-80°	126.7	8.0
80°-90°	29.0	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°	422.3	26.5
0°-40°	689.0	43.3
0°-60°	1226.0	77.0
0°-90°	1592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	549	549	549	549	549	
5°	545	545	548	549	545	52
15°	520	522	524	527	530	147
25°	473	476	483	489	493	218
35°	409	414	425	438	446	256
45°	335	341	357	380	394	258
55°	249	259	288	319	337	222
65°	160	176	214	248	266	158
75°	74	98	132	141	143	79
85°	18	22	24	23	23	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	548.9	548.9	548.9	548.9	548.9
2.5°	553.1	552.0	551.0	547.8	544.7
5°	544.7	544.7	547.8	548.9	544.7
7.5°	540.5	540.5	540.5	544.7	542.6
10°	536.3	536.3	536.3	539.4	539.4
12.5°	528.9	530.0	531.0	532.1	534.2
15°	519.5	521.6	523.7	526.8	530.0
17.5°	510.0	512.1	516.3	519.5	523.7
20°	499.5	501.6	506.9	510.0	514.2
22.5°	488.0	489.0	495.3	499.5	504.8
25°	473.3	476.4	482.7	489.0	493.2
27.5°	458.6	461.8	469.1	477.5	483.8
30°	443.9	447.1	454.4	464.9	471.2
32.5°	427.1	431.3	439.7	452.3	459.7
35°	409.3	414.5	425.0	437.6	446.0
37.5°	391.4	396.7	408.2	424.0	432.4
40°	373.6	378.9	391.4	408.2	418.7
42.5°	353.7	360.0	373.6	393.5	406.1
45°	334.8	341.1	356.8	379.9	393.5
47.5°	313.8	321.1	339.0	365.2	380.9
50°	292.8	301.2	321.1	350.5	367.3
52.5°	270.8	280.2	304.3	334.8	352.6
55°	248.7	259.2	287.5	319.0	336.9
57.5°	226.7	238.2	269.7	302.2	320.1
60°	204.6	217.2	251.9	285.5	303.3
62.5°	182.6	196.2	233.0	266.6	285.5
65°	159.5	176.3	214.1	247.7	265.5
67.5°	136.4	156.4	195.2	227.7	244.5
70°	114.4	136.4	175.3	205.7	221.4
72.5°	93.4	116.5	154.3	180.5	186.8
75°	73.5	97.6	132.2	140.6	142.7
77.5°	56.7	78.7	104.9	107.0	112.3
80°	40.9	59.8	71.4	77.7	79.8
82.5°	28.3	40.9	47.2	48.3	49.3
85°	17.8	22.0	24.1	23.1	23.1
87.5°	9.4	8.4	7.3	5.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)