

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: P260330

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260330
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-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1060.0 lumens
Efficiency: N/A
Efficacy: 68.3 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

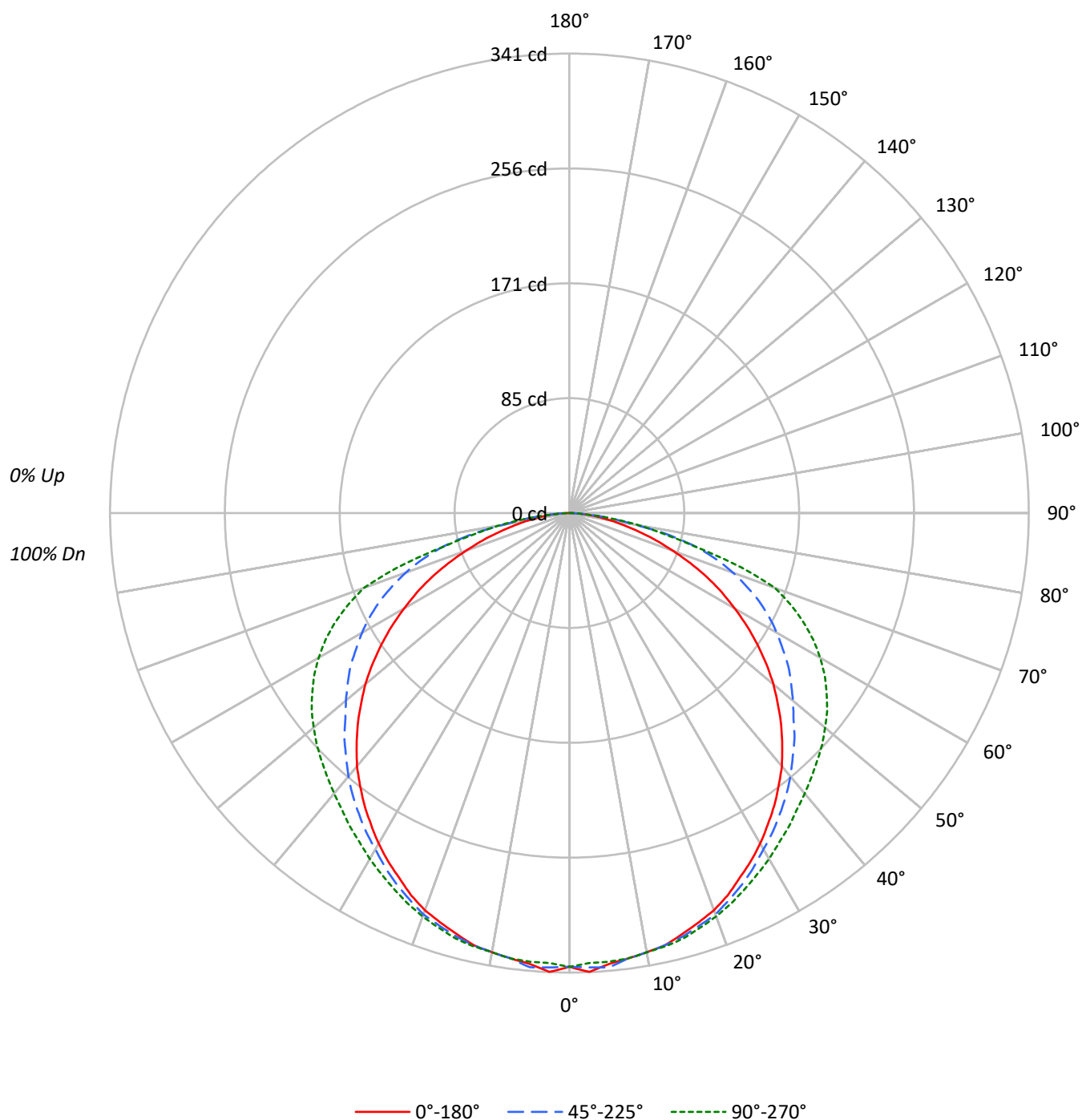
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	906	906	906
5°	907	914	903
10°	904	904	904
15°	901	906	910
20°	898	908	912
25°	887	902	914
30°	880	895	921
35°	871	895	933
40°	862	896	954
45°	846	899	990
50°	827	906	1037
55°	799	931	1093
60°	762	957	1157
65°	718	991	1221
70°	641	1017	1276
75°	556	1019	1010
80°	473	753	817
85°	408	509	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.0	3.0
10°-20°	91.8	8.7
20°-30°	139.9	13.2
30°-40°	171.2	16.1
40°-50°	184.2	17.4
50°-60°	178.4	16.8
60°-70°	151.1	14.3
70°-80°	91.4	8.6
80°-90°	20.1	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°	263.7	24.9
0°-40°	434.9	41.0
0°-60°	797.5	75.2
0°-90°	1060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	337	337	337	337	337	
5°	336	336	338	337	334	32
15°	324	324	325	326	327	91
25°	299	300	304	306	308	138
35°	265	267	272	280	284	166
45°	222	226	236	251	260	171
55°	170	178	198	221	233	152
65°	113	125	156	180	192	111
75°	54	72	98	100	97	58
85°	13	16	16	16	15	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	336.7	336.7	336.7	336.7	336.7
2.5°	340.8	340.0	337.5	335.9	334.2
5°	335.9	335.9	338.3	336.7	334.2
7.5°	333.4	333.4	333.4	337.5	333.4
10°	330.9	331.7	330.9	334.2	330.9
12.5°	328.5	328.5	328.5	329.3	329.3
15°	323.5	324.3	325.2	326.0	326.8
17.5°	318.6	319.4	321.0	321.9	322.7
20°	313.6	314.5	316.9	316.9	318.6
22.5°	307.0	307.0	310.3	311.2	313.6
25°	298.8	300.5	303.8	306.2	307.9
27.5°	291.4	293.1	296.3	299.6	302.1
30°	283.2	284.8	288.1	293.1	296.3
32.5°	274.1	275.8	280.7	286.5	289.8
35°	265.1	266.7	272.5	279.9	284.0
37.5°	255.2	257.7	264.2	272.5	277.4
40°	245.3	247.8	255.2	264.2	271.7
42.5°	233.8	237.1	245.3	257.7	265.9
45°	222.3	226.4	236.3	251.1	260.1
47.5°	209.9	214.0	225.6	244.5	254.4
50°	197.6	202.5	216.5	237.1	247.8
52.5°	184.4	189.3	207.4	229.7	241.2
55°	170.4	177.8	198.4	221.4	233.0
57.5°	156.4	164.6	187.7	212.4	224.7
60°	141.6	151.5	177.8	202.5	214.9
62.5°	127.6	138.3	167.1	191.8	204.2
65°	112.8	125.1	155.6	180.3	191.8
67.5°	97.1	112.8	142.4	166.3	177.8
70°	81.5	99.6	129.2	151.5	162.2
72.5°	67.5	86.4	114.4	133.4	133.4
75°	53.5	72.4	98.0	99.6	97.1
77.5°	41.2	59.3	76.6	70.0	71.6
80°	30.5	45.3	48.6	51.0	52.7
82.5°	20.6	30.5	31.3	32.9	32.9
85°	13.2	15.6	16.5	15.6	14.8
87.5°	5.8	6.6	4.9	3.3	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)