

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: P260331

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260331
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-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1102.0 lumens
Efficiency: N/A
Efficacy: 71.8 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

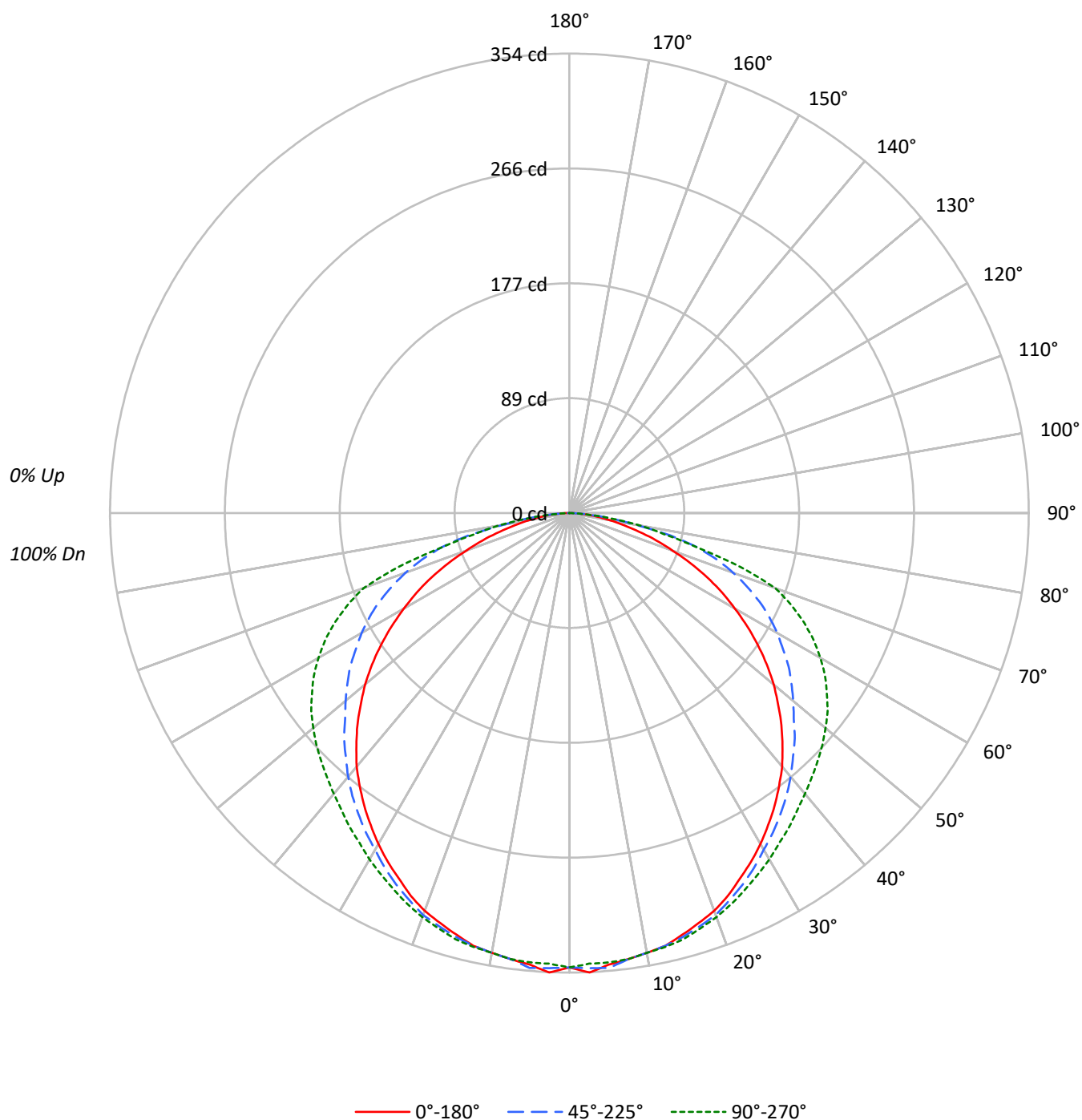
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	942	942	942
5°	943	950	939
10°	940	940	940
15°	937	942	947
20°	934	944	948
25°	923	938	950
30°	915	931	957
35°	905	931	970
40°	896	932	992
45°	879	935	1029
50°	860	942	1078
55°	831	967	1136
60°	792	995	1202
65°	746	1030	1270
70°	666	1057	1327
75°	578	1058	1050
80°	491	783	849
85°	423	528	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	3.0
10°-20°	95.4	8.7
20°-30°	145.4	13.2
30°-40°	178.0	16.1
40°-50°	191.5	17.4
50°-60°	185.5	16.8
60°-70°	157.1	14.3
70°-80°	95.0	8.6
80°-90°	20.9	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°	274.1	24.9
0°-40°	452.1	41.0
0°-60°	829.0	75.2
0°-90°	1102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	350	350	350	350	350	
5°	349	349	352	350	348	33
15°	336	337	338	339	340	95
25°	311	312	316	318	320	143
35°	276	277	283	291	295	172
45°	231	235	246	261	270	178
55°	177	185	206	230	242	158
65°	117	130	162	187	199	115
75°	56	75	102	104	101	60
85°	14	16	17	16	15	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	350.0	350.0	350.0	350.0	350.0
2.5°	354.3	353.4	350.9	349.2	347.5
5°	349.2	349.2	351.7	350.0	347.5
7.5°	346.6	346.6	346.6	350.9	346.6
10°	344.0	344.9	344.0	347.5	344.0
12.5°	341.5	341.5	341.5	342.3	342.3
15°	336.3	337.2	338.0	338.9	339.8
17.5°	331.2	332.1	333.8	334.6	335.5
20°	326.1	326.9	329.5	329.5	331.2
22.5°	319.2	319.2	322.6	323.5	326.1
25°	310.7	312.4	315.8	318.4	320.1
27.5°	303.0	304.7	308.1	311.5	314.1
30°	294.4	296.1	299.5	304.7	308.1
32.5°	285.0	286.7	291.8	297.8	301.2
35°	275.6	277.3	283.3	291.0	295.3
37.5°	265.3	267.9	274.7	283.3	288.4
40°	255.0	257.6	265.3	274.7	282.4
42.5°	243.0	246.5	255.0	267.9	276.4
45°	231.1	235.3	245.6	261.0	270.4
47.5°	218.2	222.5	234.5	254.2	264.4
50°	205.4	210.5	225.1	246.5	257.6
52.5°	191.7	196.8	215.7	238.8	250.8
55°	177.2	184.9	206.2	230.2	242.2
57.5°	162.6	171.2	195.1	220.8	233.6
60°	147.2	157.5	184.9	210.5	223.4
62.5°	132.6	143.8	173.7	199.4	212.2
65°	117.2	130.1	161.7	187.4	199.4
67.5°	101.0	117.2	148.1	172.9	184.9
70°	84.7	103.6	134.4	157.5	168.6
72.5°	70.2	89.9	119.0	138.6	138.6
75°	55.6	75.3	101.8	103.6	101.0
77.5°	42.8	61.6	79.6	72.7	74.5
80°	31.7	47.1	50.5	53.1	54.8
82.5°	21.4	31.7	32.5	34.2	34.2
85°	13.7	16.3	17.1	16.3	15.4
87.5°	6.0	6.8	5.1	3.4	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)