

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: P260216

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260216
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-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1278.0 lumens
Efficiency: N/A
Efficacy: 82.3 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

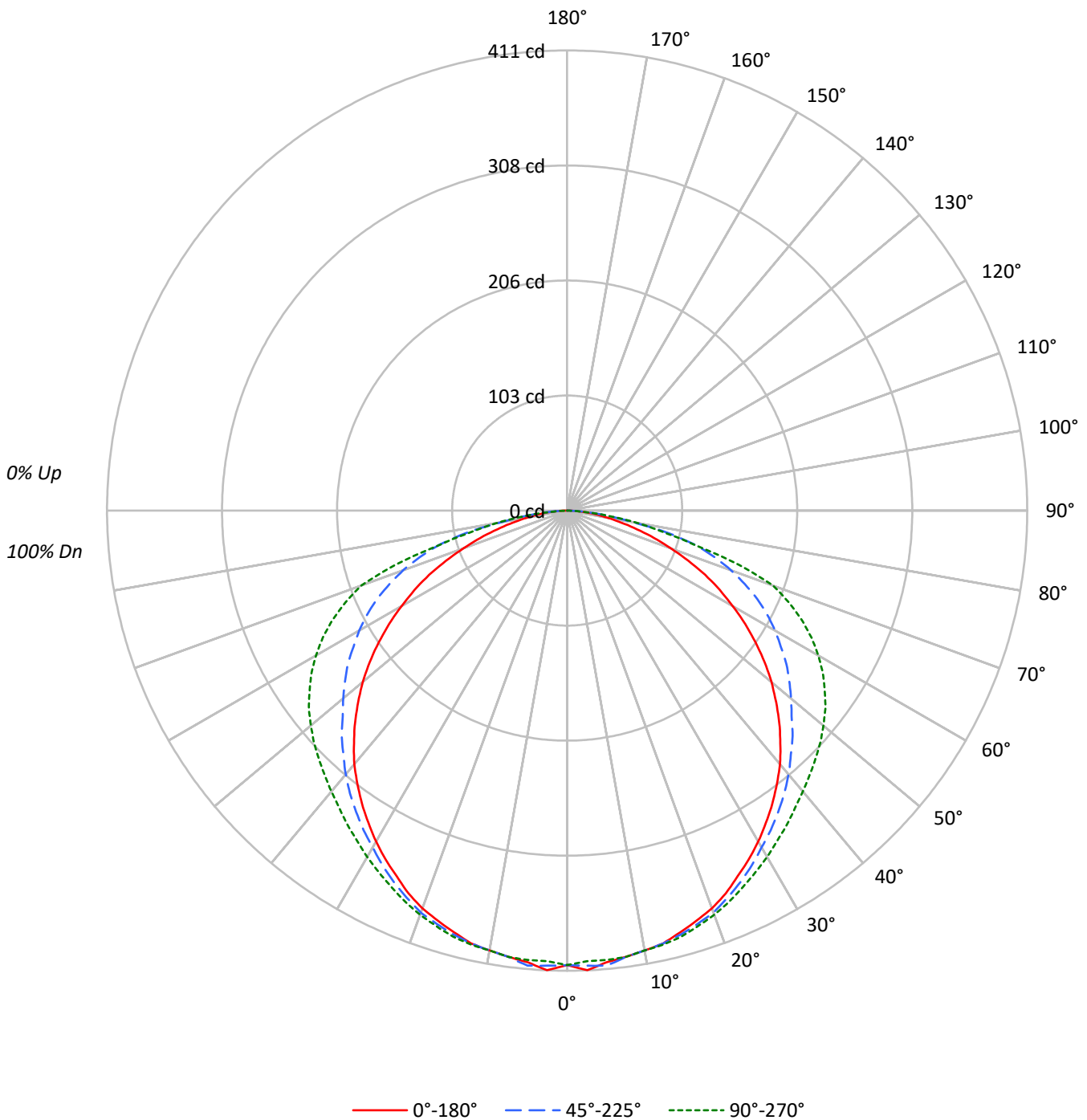
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1092	1092	1092
5°	1094	1102	1088
10°	1090	1090	1090
15°	1087	1092	1098
20°	1083	1094	1100
25°	1070	1087	1102
30°	1061	1079	1110
35°	1050	1079	1125
40°	1039	1081	1150
45°	1020	1084	1193
50°	997	1093	1250
55°	964	1122	1318
60°	919	1154	1394
65°	866	1195	1472
70°	773	1226	1538
75°	671	1228	1218
80°	569	908	984
85°	491	611	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	3.0
10°-20°	110.7	8.7
20°-30°	168.7	13.2
30°-40°	206.4	16.1
40°-50°	222.1	17.4
50°-60°	215.1	16.8
60°-70°	182.2	14.3
70°-80°	110.1	8.6
80°-90°	24.2	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°	317.9	24.9
0°-40°	524.3	41.0
0°-60°	961.4	75.2
0°-90°	1278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	405	405	408	406	403	38
15°	390	391	392	393	394	110
25°	360	362	366	369	371	166
35°	320	322	328	337	342	200
45°	268	273	285	303	314	207
55°	205	214	239	267	281	184
65°	136	151	188	217	231	134
75°	64	87	118	120	117	69
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°	405.9	405.9	405.9	405.9	405.9
2.5°	410.9	409.9	406.9	404.9	402.9
5°	404.9	404.9	407.9	405.9	402.9
7.5°	402.0	402.0	402.0	406.9	402.0
10°	399.0	400.0	399.0	402.9	399.0
12.5°	396.0	396.0	396.0	397.0	397.0
15°	390.0	391.0	392.0	393.0	394.0
17.5°	384.1	385.1	387.1	388.1	389.1
20°	378.1	379.1	382.1	382.1	384.1
22.5°	370.2	370.2	374.2	375.2	378.1
25°	360.3	362.3	366.2	369.2	371.2
27.5°	351.3	353.3	357.3	361.3	364.2
30°	341.4	343.4	347.4	353.3	357.3
32.5°	330.5	332.5	338.4	345.4	349.4
35°	319.6	321.6	328.5	337.4	342.4
37.5°	307.7	310.6	318.6	328.5	334.5
40°	295.8	298.7	307.7	318.6	327.5
42.5°	281.9	285.8	295.8	310.6	320.6
45°	268.0	272.9	284.8	302.7	313.6
47.5°	253.1	258.0	271.9	294.8	306.7
50°	238.2	244.2	261.0	285.8	298.7
52.5°	222.3	228.3	250.1	276.9	290.8
55°	205.4	214.4	239.2	267.0	280.9
57.5°	188.6	198.5	226.3	256.1	270.9
60°	170.7	182.6	214.4	244.2	259.0
62.5°	153.8	166.7	201.5	231.2	246.1
65°	136.0	150.9	187.6	217.4	231.2
67.5°	117.1	136.0	171.7	200.5	214.4
70°	98.3	120.1	155.8	182.6	195.5
72.5°	81.4	104.2	138.0	160.8	160.8
75°	64.5	87.3	118.1	120.1	117.1
77.5°	49.6	71.5	92.3	84.4	86.3
80°	36.7	54.6	58.6	61.5	63.5
82.5°	24.8	36.7	37.7	39.7	39.7
85°	15.9	18.9	19.8	18.9	17.9
87.5°	6.9	7.9	6.0	4.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)