

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: P260415

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260415
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1353.0 lumens
Efficiency: N/A
Efficacy: 85.5 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

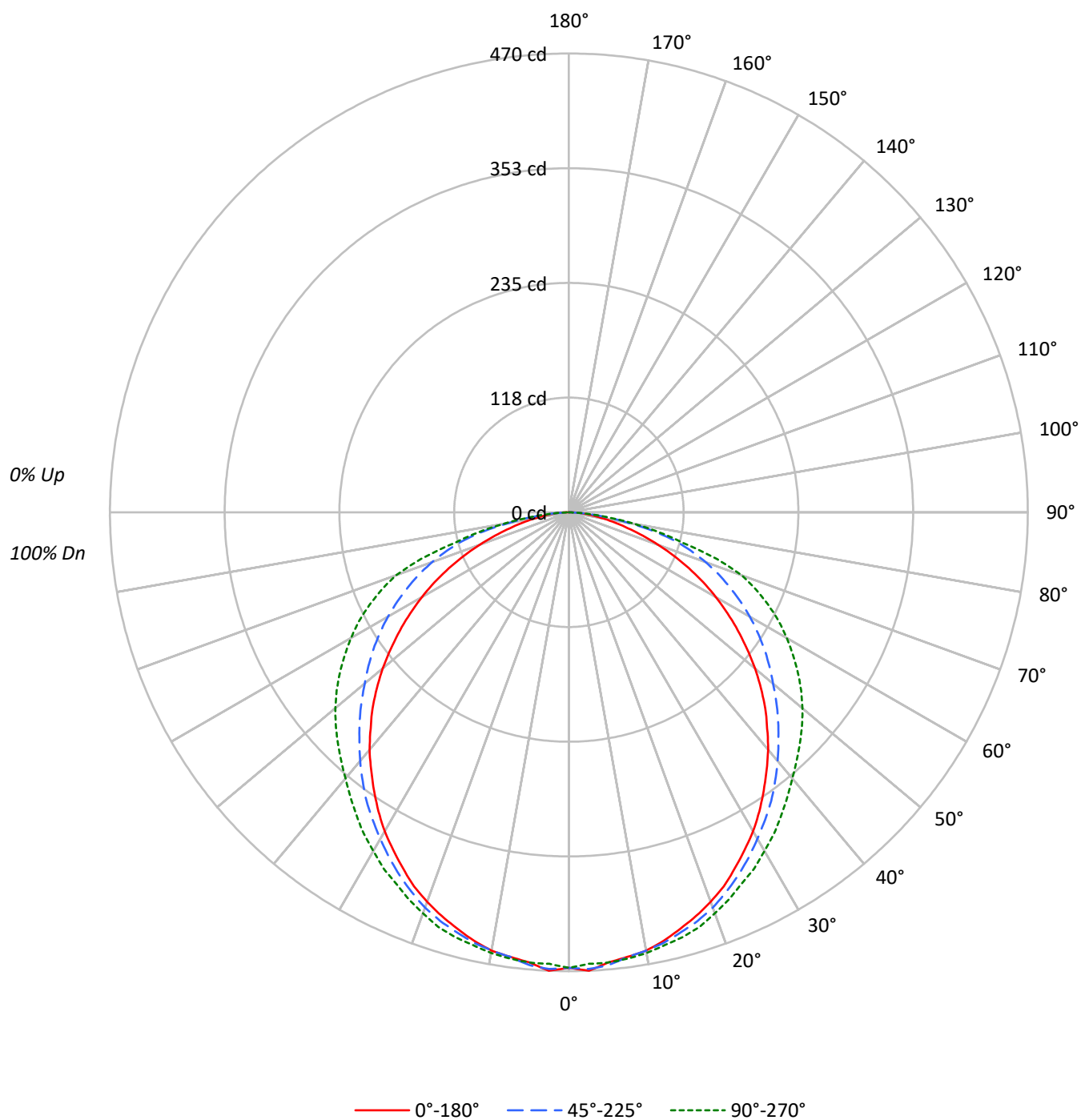
Input Watts (W): 15.826089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1255	1255	1255
5°	1250	1258	1250
10°	1245	1245	1253
15°	1230	1240	1255
20°	1216	1234	1251
25°	1194	1218	1245
30°	1172	1200	1244
35°	1143	1187	1245
40°	1115	1169	1250
45°	1083	1154	1273
50°	1042	1142	1307
55°	992	1147	1343
60°	936	1152	1387
65°	863	1158	1437
70°	765	1172	1481
75°	649	1169	1261
80°	539	939	1051
85°	469	633	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	3.3
10°-20°	125.7	9.3
20°-30°	189.1	14.0
30°-40°	226.6	16.8
40°-50°	236.4	17.5
50°-60°	220.1	16.3
60°-70°	178.7	13.2
70°-80°	107.7	8.0
80°-90°	24.7	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°	358.9	26.5
0°-40°	585.5	43.3
0°-60°	1042.0	77.0
0°-90°	1353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	466	466	466	466	466	
5°	463	463	466	466	463	44
15°	442	443	445	448	450	125
25°	402	405	410	416	419	185
35°	348	352	361	372	379	218
45°	284	290	303	323	334	219
55°	211	220	244	271	286	189
65°	136	150	182	210	226	134
75°	62	83	112	120	121	67
85°	15	19	20	20	20	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	466.5	466.5	466.5	466.5	466.5
2.5°	470.0	469.1	468.2	465.6	462.9
5°	462.9	462.9	465.6	466.5	462.9
7.5°	459.3	459.3	459.3	462.9	461.1
10°	455.8	455.8	455.8	458.4	458.4
12.5°	449.5	450.4	451.3	452.2	454.0
15°	441.5	443.3	445.1	447.7	450.4
17.5°	433.5	435.2	438.8	441.5	445.1
20°	424.5	426.3	430.8	433.5	437.0
22.5°	414.7	415.6	421.0	424.5	429.0
25°	402.2	404.9	410.3	415.6	419.2
27.5°	389.8	392.4	398.7	405.8	411.2
30°	377.3	379.9	386.2	395.1	400.5
32.5°	363.0	366.6	373.7	384.4	390.7
35°	347.8	352.3	361.2	371.9	379.1
37.5°	332.7	337.1	346.9	360.3	367.5
40°	317.5	322.0	332.7	346.9	355.9
42.5°	300.6	305.9	317.5	334.5	345.2
45°	284.5	289.9	303.2	322.9	334.5
47.5°	266.7	272.9	288.1	310.4	323.8
50°	248.8	256.0	272.9	297.9	312.2
52.5°	230.1	238.1	258.7	284.5	299.7
55°	211.4	220.3	244.4	271.1	286.3
57.5°	192.7	202.5	229.2	256.9	272.0
60°	173.9	184.6	214.1	242.6	257.8
62.5°	155.2	166.8	198.0	226.5	242.6
65°	135.6	149.8	181.9	210.5	225.7
67.5°	115.9	132.9	165.9	193.5	207.8
70°	97.2	115.9	148.9	174.8	188.2
72.5°	79.4	99.0	131.1	153.4	158.8
75°	62.4	82.9	112.4	119.5	121.3
77.5°	48.2	66.9	89.2	91.0	95.4
80°	34.8	50.8	60.6	66.0	67.8
82.5°	24.1	34.8	40.1	41.0	41.9
85°	15.2	18.7	20.5	19.6	19.6
87.5°	8.0	7.1	6.2	4.5	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)