

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: P230867

Luminaire Tested: **22CZ-LD5-20SE-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230867
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-LD5-20SE-RDP-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1308.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

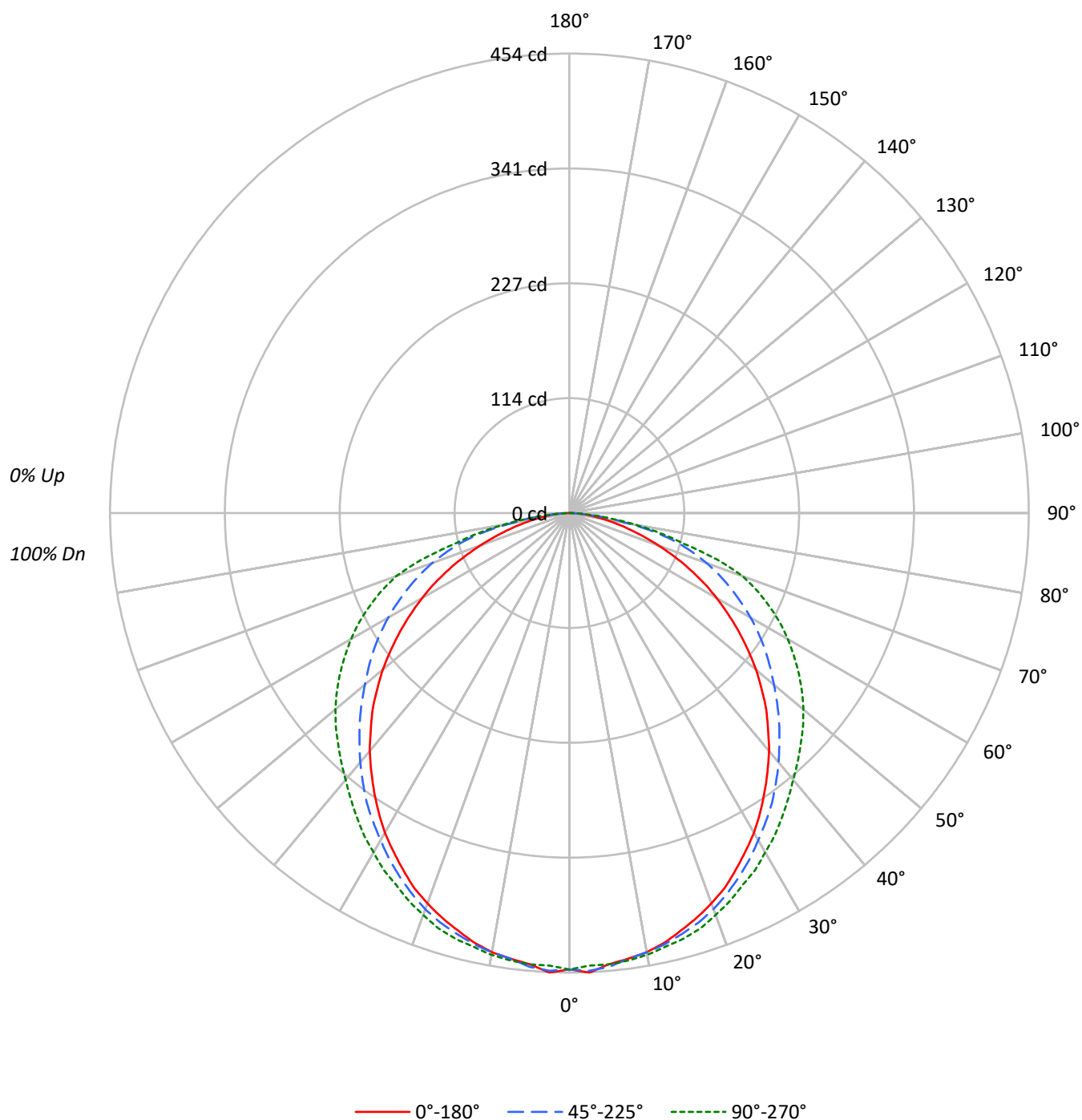
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1213	1213	1213
5°	1209	1216	1209
10°	1204	1204	1211
15°	1189	1199	1213
20°	1175	1193	1210
25°	1155	1178	1203
30°	1133	1160	1203
35°	1105	1147	1204
40°	1078	1130	1208
45°	1047	1116	1230
50°	1007	1104	1263
55°	958	1109	1299
60°	905	1114	1341
65°	835	1120	1389
70°	740	1133	1431
75°	628	1129	1220
80°	521	908	1015
85°	454	611	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	3.3
10°-20°	121.5	9.3
20°-30°	182.8	14.0
30°-40°	219.1	16.8
40°-50°	228.5	17.5
50°-60°	212.7	16.3
60°-70°	172.7	13.2
70°-80°	104.1	8.0
80°-90°	23.9	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°	347.0	26.5
0°-40°	566.1	43.3
0°-60°	1007.3	77.0
0°-90°	1308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	451	451	451	451	451	
5°	448	448	450	451	448	43
15°	427	428	430	433	435	120
25°	389	392	397	402	405	179
35°	336	341	349	360	366	210
45°	275	280	293	312	323	212
55°	204	213	236	262	277	183
65°	131	145	176	204	218	130
75°	60	80	109	116	117	65
85°	15	18	20	19	19	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	450.9	450.9	450.9	450.9	450.9
2.5°	454.4	453.5	452.7	450.1	447.5
5°	447.5	447.5	450.1	450.9	447.5
7.5°	444.1	444.1	444.1	447.5	445.8
10°	440.6	440.6	440.6	443.2	443.2
12.5°	434.6	435.4	436.3	437.2	438.9
15°	426.8	428.5	430.3	432.8	435.4
17.5°	419.0	420.8	424.2	426.8	430.3
20°	410.4	412.1	416.5	419.0	422.5
22.5°	400.9	401.8	407.0	410.4	414.7
25°	388.9	391.5	396.6	401.8	405.3
27.5°	376.8	379.4	385.4	392.3	397.5
30°	364.7	367.3	373.3	382.0	387.1
32.5°	350.9	354.4	361.3	371.6	377.7
35°	336.3	340.6	349.2	359.6	366.5
37.5°	321.6	325.9	335.4	348.3	355.2
40°	307.0	311.3	321.6	335.4	344.0
42.5°	290.6	295.7	307.0	323.3	333.7
45°	275.1	280.2	293.2	312.1	323.3
47.5°	257.8	263.8	278.5	300.1	313.0
50°	240.6	247.5	263.8	288.0	301.8
52.5°	222.5	230.2	250.0	275.1	289.7
55°	204.3	213.0	236.3	262.1	276.8
57.5°	186.2	195.7	221.6	248.3	263.0
60°	168.1	178.5	206.9	234.5	249.2
62.5°	150.0	161.2	191.4	219.0	234.5
65°	131.1	144.9	175.9	203.5	218.1
67.5°	112.1	128.5	160.4	187.1	200.9
70°	94.0	112.1	144.0	169.0	181.9
72.5°	76.7	95.7	126.7	148.3	153.5
75°	60.4	80.2	108.6	115.5	117.3
77.5°	46.6	64.7	86.2	87.9	92.3
80°	33.6	49.1	58.6	63.8	65.5
82.5°	23.3	33.6	38.8	39.7	40.5
85°	14.7	18.1	19.8	19.0	19.0
87.5°	7.8	6.9	6.0	4.3	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)