

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: P230844

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230844
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-LD5-24-RDP-UNV-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1347.0 lumens
Efficiency: N/A
Efficacy: 68.7 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

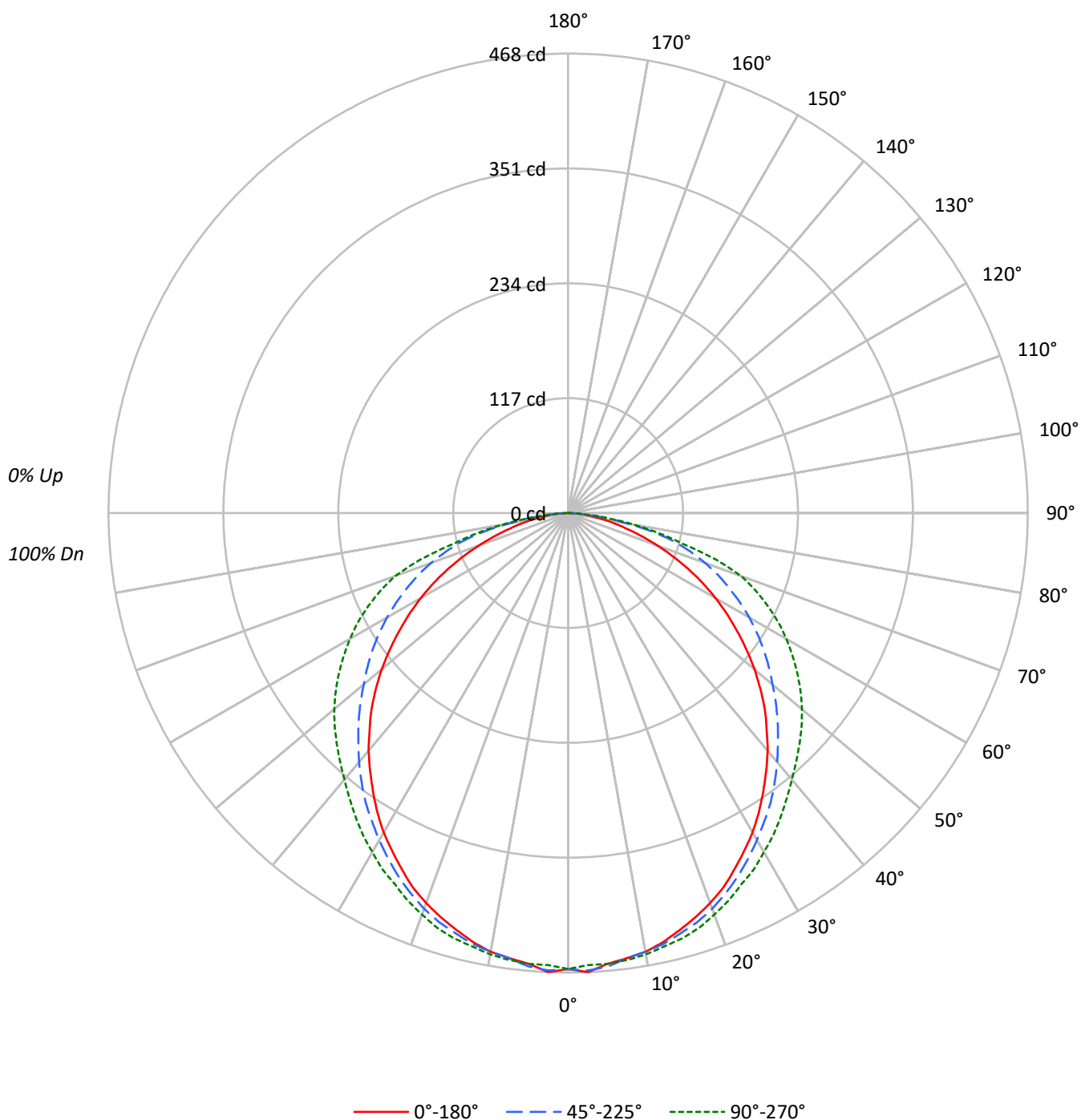
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1250	1250	1250
5°	1245	1252	1245
10°	1240	1240	1247
15°	1224	1234	1249
20°	1210	1228	1246
25°	1189	1213	1239
30°	1167	1195	1239
35°	1138	1181	1240
40°	1110	1163	1245
45°	1078	1149	1267
50°	1037	1137	1301
55°	987	1141	1337
60°	932	1147	1381
65°	860	1153	1430
70°	762	1167	1474
75°	647	1163	1256
80°	536	936	1046
85°	466	630	602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	3.3
10°-20°	125.1	9.3
20°-30°	188.3	14.0
30°-40°	225.6	16.8
40°-50°	235.3	17.5
50°-60°	219.1	16.3
60°-70°	177.9	13.2
70°-80°	107.2	8.0
80°-90°	24.6	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°	357.3	26.5
0°-40°	582.9	43.3
0°-60°	1037.3	77.0
0°-90°	1347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	464	464	464	464	464	
5°	461	461	464	464	461	44
15°	440	441	443	446	448	124
25°	400	403	408	414	417	185
35°	346	351	360	370	377	217
45°	283	289	302	321	333	218
55°	210	219	243	270	285	188
65°	135	149	181	210	225	133
75°	62	83	112	119	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°	464.4	464.4	464.4	464.4	464.4
2.5°	467.9	467.1	466.2	463.5	460.8
5°	460.8	460.8	463.5	464.4	460.8
7.5°	457.3	457.3	457.3	460.8	459.1
10°	453.7	453.7	453.7	456.4	456.4
12.5°	447.5	448.4	449.3	450.2	452.0
15°	439.5	441.3	443.1	445.7	448.4
17.5°	431.5	433.3	436.9	439.5	443.1
20°	422.7	424.4	428.9	431.5	435.1
22.5°	412.9	413.8	419.1	422.7	427.1
25°	400.5	403.1	408.5	413.8	417.3
27.5°	388.0	390.7	396.9	404.0	409.3
30°	375.6	378.3	384.5	393.4	398.7
32.5°	361.4	364.9	372.0	382.7	388.9
35°	346.3	350.7	359.6	370.3	377.4
37.5°	331.2	335.6	345.4	358.7	365.8
40°	316.1	320.5	331.2	345.4	354.3
42.5°	299.2	304.6	316.1	333.0	343.6
45°	283.3	288.6	301.9	321.4	333.0
47.5°	265.5	271.7	286.8	309.0	322.3
50°	247.7	254.8	271.7	296.6	310.8
52.5°	229.1	237.1	257.5	283.3	298.3
55°	210.4	219.3	243.3	269.9	285.0
57.5°	191.8	201.6	228.2	255.7	270.8
60°	173.1	183.8	213.1	241.5	256.6
62.5°	154.5	166.0	197.1	225.5	241.5
65°	135.0	149.2	181.1	209.6	224.6
67.5°	115.4	132.3	165.2	192.7	206.9
70°	96.8	115.4	148.3	174.0	187.4
72.5°	79.0	98.6	130.5	152.7	158.1
75°	62.2	82.6	111.9	119.0	120.8
77.5°	47.9	66.6	88.8	90.6	95.0
80°	34.6	50.6	60.4	65.7	67.5
82.5°	24.0	34.6	40.0	40.8	41.7
85°	15.1	18.6	20.4	19.5	19.5
87.5°	8.0	7.1	6.2	4.4	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)