

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: P230563

Luminaire Tested: **22CZ-LD5-24SE-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24SE-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2368.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

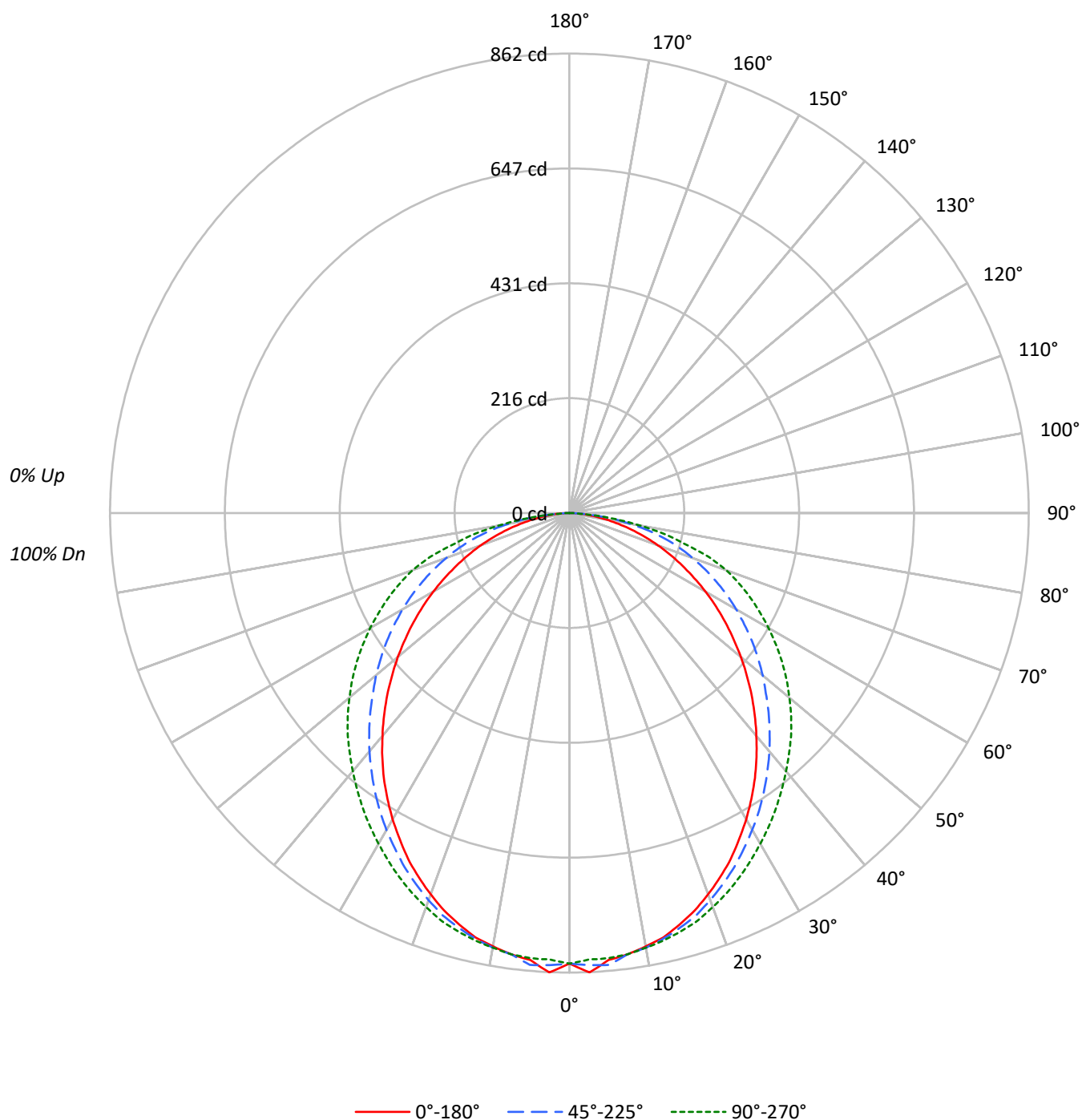
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2274	2274	2274
5°	2274	2299	2264
10°	2256	2262	2262
15°	2226	2242	2262
20°	2180	2213	2252
25°	2127	2175	2239
30°	2061	2133	2225
35°	1994	2092	2220
40°	1917	2051	2221
45°	1840	2011	2239
50°	1760	1981	2256
55°	1675	1961	2285
60°	1587	1946	2324
65°	1489	1936	2383
70°	1386	1930	2464
75°	1257	1928	2334
80°	1088	1785	2070
85°	923	1352	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.4
10°-20°	227.1	9.6
20°-30°	337.8	14.3
30°-40°	399.5	16.9
40°-50°	410.6	17.3
50°-60°	375.2	15.8
60°-70°	300.2	12.7
70°-80°	188.4	8.0
80°-90°	49.1	2.1
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°	645.0	27.2
0°-40°	1044.5	44.1
0°-60°	1830.4	77.3
0°-90°	2368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	845	845	845	845	845	
5°	842	842	851	845	838	80
15°	799	800	805	810	812	225
25°	716	721	732	745	754	329
35°	607	615	637	661	676	379
45°	484	496	528	568	588	373
55°	357	374	418	464	487	319
65°	234	254	304	350	374	232
75°	121	144	185	213	224	128
85°	30	38	44	43	43	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.2	845.2	845.2	845.2	845.2
2.5°	862.5	859.0	848.7	841.8	838.3
5°	841.8	841.8	851.0	845.2	838.3
7.5°	834.9	834.9	834.9	852.1	834.9
10°	825.6	826.8	827.9	834.9	827.9
12.5°	815.3	815.3	817.6	819.9	821.0
15°	799.2	800.3	804.9	809.5	811.8
17.5°	781.9	785.3	791.1	796.9	801.5
20°	761.2	765.8	772.7	781.9	786.5
22.5°	739.3	743.9	753.1	763.5	771.5
25°	716.2	720.9	732.4	745.0	754.2
27.5°	689.8	695.5	709.3	726.6	735.8
30°	663.3	670.2	686.3	705.9	716.2
32.5°	635.6	643.7	662.1	684.0	696.7
35°	606.9	614.9	636.8	661.0	675.9
37.5°	576.9	586.1	610.3	637.9	654.1
40°	545.8	556.2	583.8	613.8	632.2
42.5°	514.7	526.2	556.2	591.9	610.3
45°	483.6	496.3	528.5	567.7	588.4
47.5°	451.4	466.4	499.8	543.5	564.2
50°	420.3	435.3	473.3	518.2	538.9
52.5°	388.1	405.3	445.6	491.7	513.6
55°	357.0	374.2	418.0	464.1	487.1
57.5°	325.9	343.2	389.2	436.4	459.5
60°	294.8	313.2	361.6	407.6	431.8
62.5°	263.7	283.3	332.8	380.0	403.0
65°	233.8	254.5	304.0	350.1	374.2
67.5°	205.0	226.9	275.2	320.1	344.3
70°	176.2	198.1	245.3	289.0	313.2
72.5°	148.5	170.4	216.5	255.6	274.1
75°	120.9	143.9	185.4	213.0	224.5
77.5°	94.4	117.5	153.2	171.6	184.2
80°	70.2	89.8	115.2	129.0	133.6
82.5°	48.4	64.5	80.6	84.1	86.4
85°	29.9	38.0	43.8	42.6	42.6
87.5°	13.8	15.0	12.7	9.2	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)