

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: P230863

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230863
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-LD5-44-RDP-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2802.0 lumens
Efficiency: N/A
Efficacy: 67.0 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

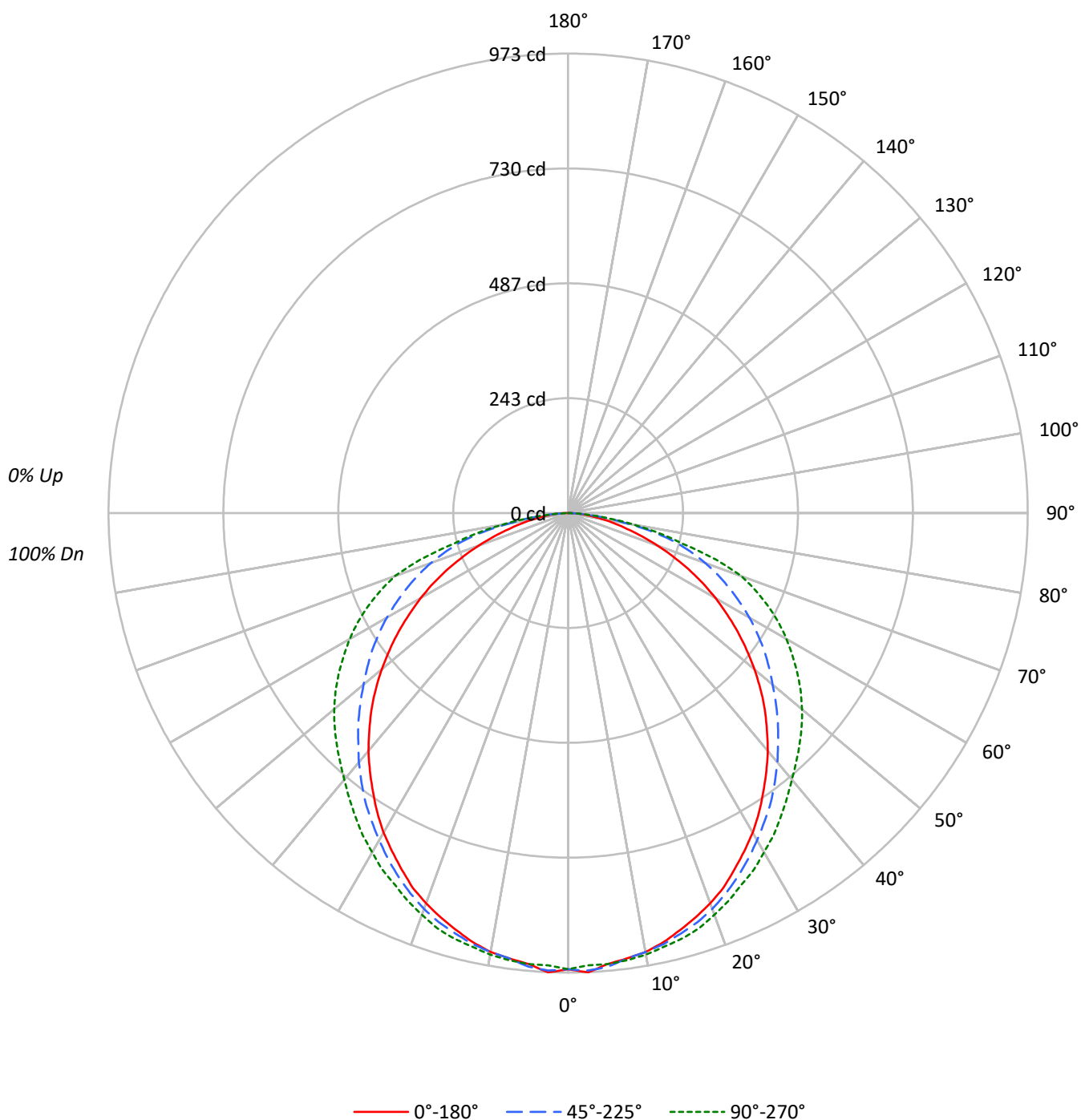
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2599	2599	2599
5°	2589	2605	2589
10°	2579	2579	2594
15°	2547	2568	2599
20°	2518	2555	2592
25°	2473	2523	2578
30°	2428	2485	2577
35°	2367	2458	2579
40°	2310	2420	2589
45°	2242	2390	2636
50°	2157	2366	2707
55°	2054	2374	2782
60°	1939	2386	2873
65°	1788	2399	2975
70°	1584	2427	3066
75°	1344	2419	2612
80°	1116	1946	2176
85°	969	1312	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	3.3
10°-20°	260.3	9.3
20°-30°	391.7	14.0
30°-40°	469.4	16.8
40°-50°	489.5	17.5
50°-60°	455.7	16.3
60°-70°	370.0	13.2
70°-80°	223.0	8.0
80°-90°	51.1	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°	743.3	26.5
0°-40°	1212.7	43.3
0°-60°	2157.8	77.0
0°-90°	2802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	959	959	964	966	959	91
15°	914	918	922	927	933	258
25°	833	839	850	861	868	384
35°	720	730	748	770	785	451
45°	589	600	628	669	693	454
55°	438	456	506	562	593	391
65°	281	310	377	436	467	278
75°	129	172	233	248	251	140
85°	31	39	42	41	41	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.0	966.0	966.0	966.0	966.0
2.5°	973.4	971.6	969.7	964.2	958.6
5°	958.6	958.6	964.2	966.0	958.6
7.5°	951.2	951.2	951.2	958.6	954.9
10°	943.9	943.9	943.9	949.4	949.4
12.5°	930.9	932.8	934.6	936.5	940.2
15°	914.3	918.0	921.7	927.2	932.8
17.5°	897.7	901.4	908.8	914.3	921.7
20°	879.2	882.9	892.1	897.7	905.1
22.5°	858.9	860.7	871.8	879.2	888.4
25°	833.0	838.6	849.7	860.7	868.1
27.5°	807.2	812.7	825.6	840.4	851.5
30°	781.3	786.9	799.8	818.3	829.3
32.5°	751.8	759.2	773.9	796.1	809.0
35°	720.4	729.6	748.1	770.2	785.0
37.5°	689.0	698.2	718.5	746.2	761.0
40°	657.6	666.8	689.0	718.5	737.0
42.5°	622.5	633.5	657.6	692.7	714.8
45°	589.2	600.3	628.0	668.6	692.7
47.5°	552.3	565.2	596.6	642.8	670.5
50°	515.3	530.1	565.2	616.9	646.5
52.5°	476.5	493.2	535.7	589.2	620.6
55°	437.8	456.2	506.1	561.5	592.9
57.5°	399.0	419.3	474.7	532.0	563.4
60°	360.2	382.3	443.3	502.4	533.8
62.5°	321.4	345.4	410.1	469.2	502.4
65°	280.8	310.3	376.8	435.9	467.3
67.5°	240.1	275.2	343.6	400.8	430.4
70°	201.3	240.1	308.5	362.0	389.7
72.5°	164.4	205.0	271.5	317.7	328.8
75°	129.3	171.8	232.7	247.5	251.2
77.5°	99.7	138.5	184.7	188.4	197.6
80°	72.0	105.3	125.6	136.7	140.4
82.5°	49.9	72.0	83.1	85.0	86.8
85°	31.4	38.8	42.5	40.6	40.6
87.5°	16.6	14.8	12.9	9.2	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)