

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: P230839

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44SE-SQP-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2901.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

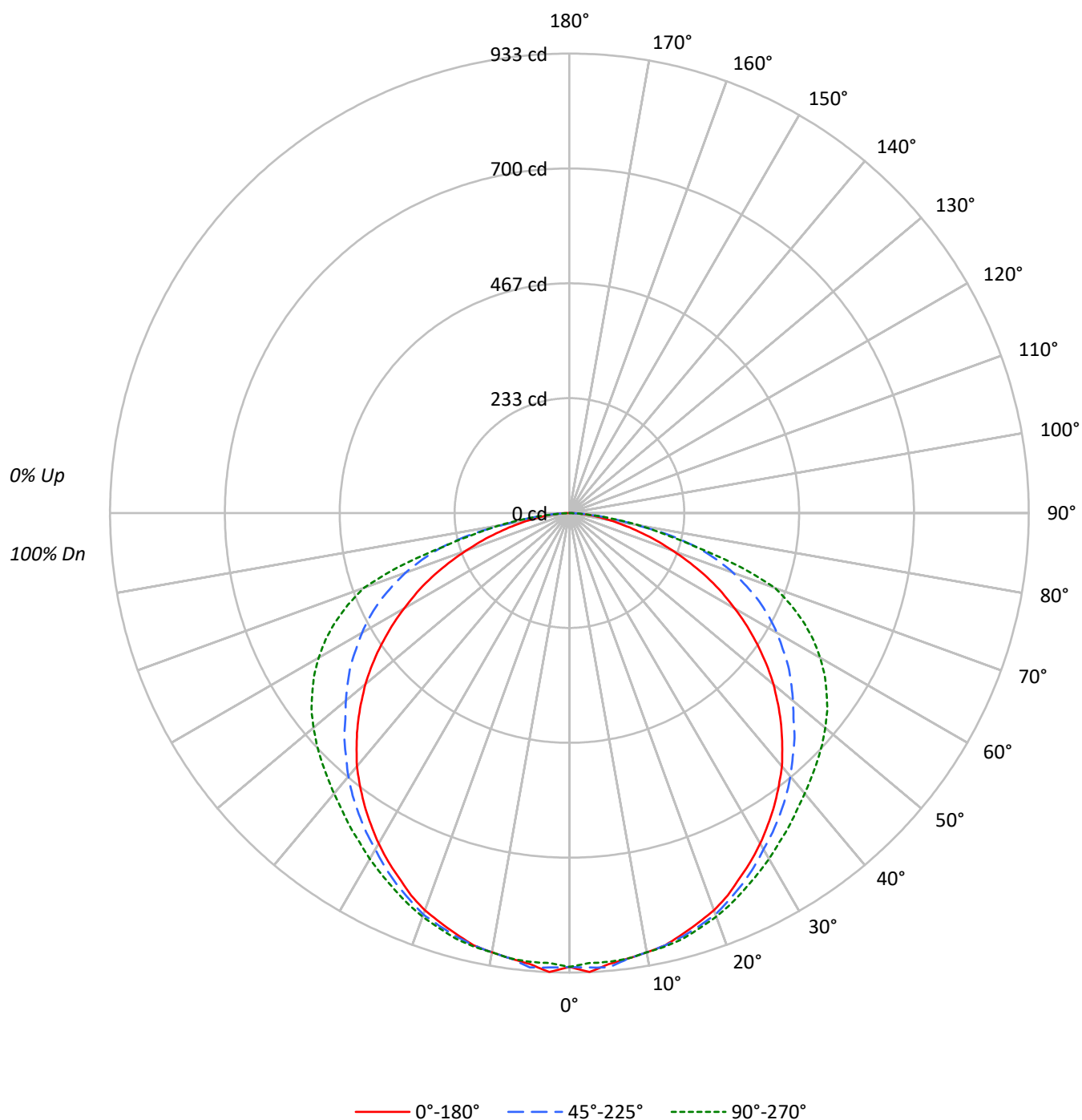
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2479	2479	2479
5°	2483	2501	2471
10°	2475	2475	2475
15°	2467	2479	2492
20°	2458	2484	2497
25°	2428	2468	2502
30°	2408	2450	2520
35°	2383	2450	2553
40°	2359	2453	2612
45°	2315	2461	2709
50°	2264	2480	2839
55°	2188	2547	2991
60°	2086	2619	3165
65°	1965	2711	3342
70°	1755	2783	3492
75°	1522	2787	2764
80°	1292	2060	2235
85°	1112	1392	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.0
10°-20°	251.2	8.7
20°-30°	382.9	13.2
30°-40°	468.5	16.1
40°-50°	504.1	17.4
50°-60°	488.3	16.8
60°-70°	413.6	14.3
70°-80°	250.0	8.6
80°-90°	54.9	1.9
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°	721.6	24.9
0°-40°	1190.1	41.0
0°-60°	2182.4	75.2
0°-90°	2901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	919	919	926	921	915	87
15°	885	888	890	892	894	250
25°	818	822	831	838	843	378
35°	725	730	746	766	777	454
45°	608	620	647	687	712	469
55°	466	487	543	606	638	417
65°	309	342	426	493	525	304
75°	146	198	268	273	266	157
85°	36	43	45	43	41	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.4	921.4	921.4	921.4	921.4
2.5°	932.7	930.4	923.7	919.2	914.7
5°	919.2	919.2	925.9	921.4	914.7
7.5°	912.4	912.4	912.4	923.7	912.4
10°	905.7	907.9	905.7	914.7	905.7
12.5°	898.9	898.9	898.9	901.2	901.2
15°	885.4	887.6	889.9	892.1	894.4
17.5°	871.9	874.1	878.6	880.9	883.1
20°	858.4	860.6	867.4	867.4	871.9
22.5°	840.3	840.3	849.3	851.6	858.4
25°	817.8	822.3	831.3	838.1	842.6
27.5°	797.5	802.0	811.0	820.1	826.8
30°	775.0	779.5	788.5	802.0	811.0
32.5°	750.2	754.7	768.2	784.0	793.0
35°	725.4	729.9	745.7	766.0	777.2
37.5°	698.4	705.2	723.2	745.7	759.2
40°	671.4	678.1	698.4	723.2	743.5
42.5°	639.8	648.8	671.4	705.2	727.7
45°	608.3	619.5	646.6	687.1	711.9
47.5°	574.5	585.8	617.3	669.1	696.1
50°	540.7	554.2	592.5	648.8	678.1
52.5°	504.6	518.2	567.7	628.6	660.1
55°	466.3	486.6	542.9	606.0	637.6
57.5°	428.1	450.6	513.7	581.2	615.0
60°	387.5	414.5	486.6	554.2	588.0
62.5°	349.2	378.5	457.3	524.9	558.7
65°	308.6	342.4	425.8	493.4	524.9
67.5°	265.8	308.6	389.8	455.1	486.6
70°	223.0	272.6	353.7	414.5	443.8
72.5°	184.7	236.6	313.2	365.0	365.0
75°	146.4	198.3	268.1	272.6	265.8
77.5°	112.6	162.2	209.5	191.5	196.0
80°	83.4	123.9	132.9	139.7	144.2
82.5°	56.3	83.4	85.6	90.1	90.1
85°	36.0	42.8	45.1	42.8	40.6
87.5°	15.8	18.0	13.5	9.0	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)