

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: P230819

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230819
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-LD5-44-SQP-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2939.0 lumens
Efficiency: N/A
Efficacy: 70.3 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

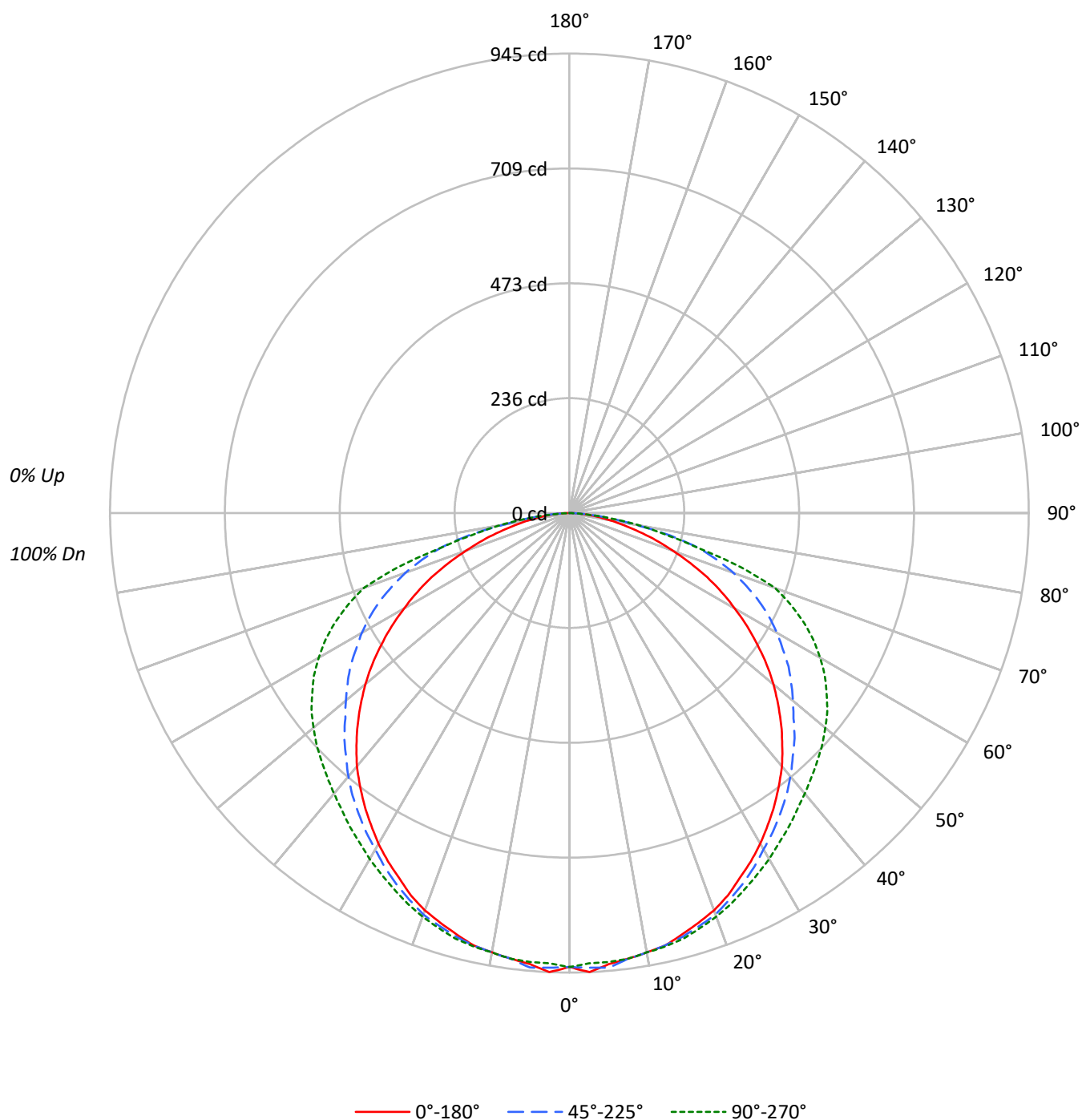
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	108	103	99	95	105	101	97	93		97	93	90			93	90	87			89
2	98	89	82	76	95	87	81	75		84	78	73			80	76	71			77
3	89	78	69	62	86	76	68	62		73	66	61			70	64	59			68
4	81	68	59	52	79	67	58	52		64	57	51			62	56	50			60
5	74	61	52	45	72	60	51	44		58	50	44			56	49	43			54
6	68	55	45	39	66	54	45	39		52	44	38			50	43	38			48
7	63	49	40	34	62	49	40	34		47	39	34			45	39	33			44
8	59	45	36	30	57	44	36	30		43	35	30			42	35	30			40
9	55	41	33	27	54	41	33	27		39	32	27			38	32	27			37
10	51	38	30	24	50	37	30	24		36	29	24			35	29	24			35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2512	2512	2512
5°	2515	2534	2503
10°	2507	2507	2507
15°	2499	2512	2524
20°	2490	2516	2529
25°	2460	2501	2534
30°	2440	2482	2553
35°	2414	2482	2587
40°	2389	2485	2646
45°	2345	2493	2745
50°	2293	2513	2876
55°	2217	2581	3030
60°	2113	2653	3206
65°	1991	2747	3386
70°	1778	2819	3537
75°	1543	2824	2800
80°	1308	2087	2264
85°	1127	1408	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	3.0
10°-20°	254.5	8.7
20°-30°	387.9	13.2
30°-40°	474.6	16.1
40°-50°	510.7	17.4
50°-60°	494.7	16.8
60°-70°	419.0	14.3
70°-80°	253.3	8.6
80°-90°	55.7	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°	731.1	24.9
0°-40°	1205.7	41.0
0°-60°	2211.0	75.2
0°-90°	2939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	931	931	938	934	927	89
15°	897	899	902	904	906	253
25°	828	833	842	849	854	382
35°	735	740	756	776	787	460
45°	616	628	655	696	721	475
55°	472	493	550	614	646	422
65°	313	347	431	500	532	308
75°	148	201	272	276	269	159
85°	36	43	46	43	41	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.5	933.5	933.5	933.5	933.5
2.5°	944.9	942.6	935.8	931.2	926.7
5°	931.2	931.2	938.1	933.5	926.7
7.5°	924.4	924.4	924.4	935.8	924.4
10°	917.5	919.8	917.5	926.7	917.5
12.5°	910.7	910.7	910.7	913.0	913.0
15°	897.0	899.3	901.6	903.8	906.1
17.5°	883.3	885.6	890.1	892.4	894.7
20°	869.6	871.9	878.7	878.7	883.3
22.5°	851.3	851.3	860.5	862.8	869.6
25°	828.5	833.1	842.2	849.1	853.6
27.5°	808.0	812.5	821.7	830.8	837.6
30°	785.1	789.7	798.8	812.5	821.7
32.5°	760.0	764.6	778.3	794.3	803.4
35°	734.9	739.5	755.5	776.0	787.4
37.5°	707.5	714.4	732.7	755.5	769.2
40°	680.2	687.0	707.5	732.7	753.2
42.5°	648.2	657.3	680.2	714.4	737.2
45°	616.3	627.7	655.1	696.1	721.2
47.5°	582.0	593.4	625.4	677.9	705.3
50°	547.8	561.5	600.3	657.3	687.0
52.5°	511.3	525.0	575.2	636.8	668.7
55°	472.5	493.0	550.1	614.0	645.9
57.5°	433.7	456.5	520.4	588.9	623.1
60°	392.6	420.0	493.0	561.5	595.7
62.5°	353.8	383.4	463.3	531.8	566.0
65°	312.7	346.9	431.4	499.8	531.8
67.5°	269.3	312.7	394.9	461.0	493.0
70°	226.0	276.2	358.3	420.0	449.6
72.5°	187.2	239.7	317.3	369.8	369.8
75°	148.4	200.9	271.6	276.2	269.3
77.5°	114.1	164.3	212.3	194.0	198.6
80°	84.4	125.5	134.7	141.5	146.1
82.5°	57.1	84.4	86.7	91.3	91.3
85°	36.5	43.4	45.6	43.4	41.1
87.5°	16.0	18.3	13.7	9.1	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)