

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: P230815

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230815
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-LD5-39-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: 2607.0 lumens
Efficiency: N/A
Efficacy: 71.6 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

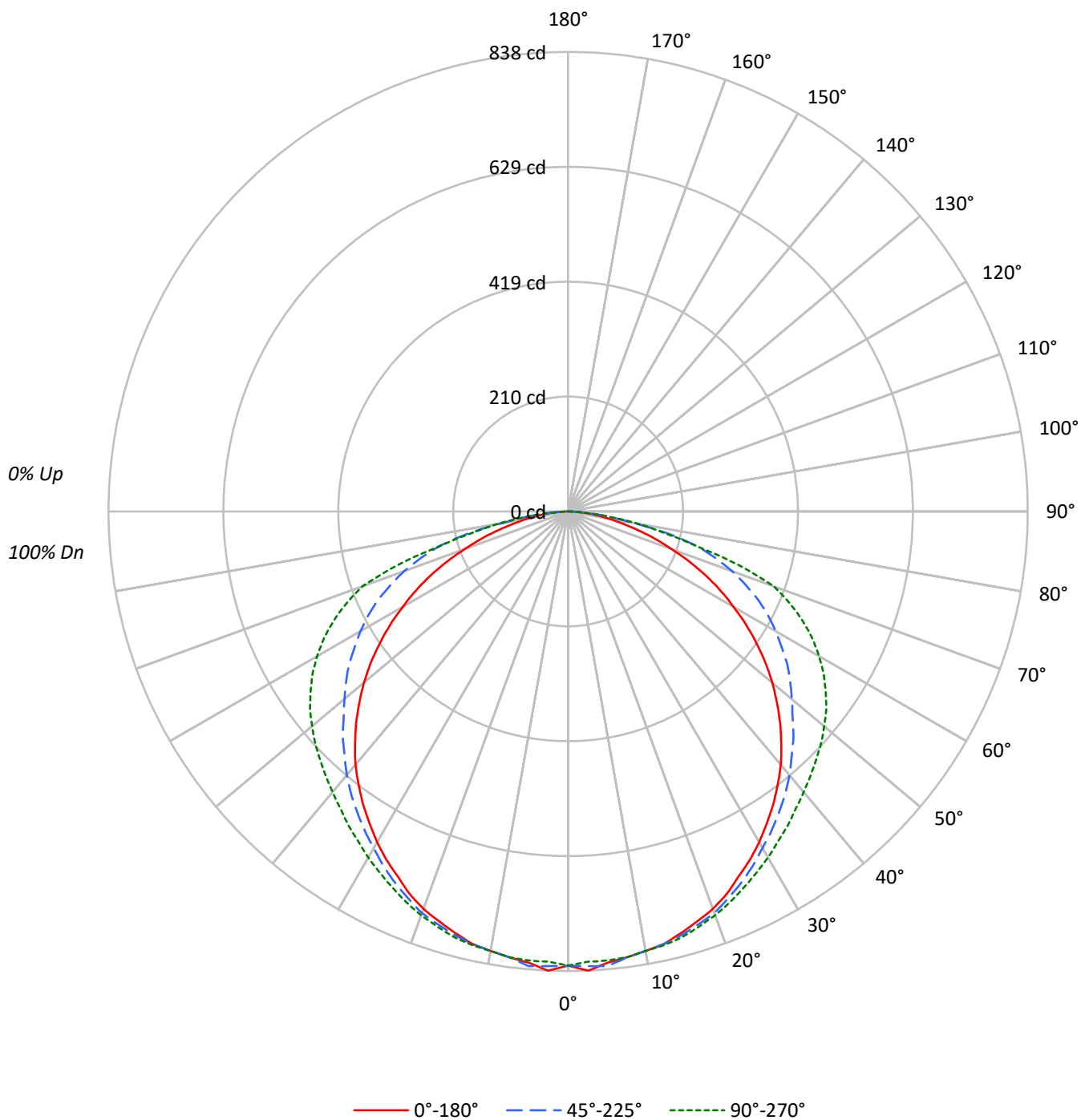
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2228	2228	2228
5°	2231	2248	2220
10°	2224	2224	2224
15°	2217	2228	2239
20°	2209	2232	2244
25°	2182	2218	2248
30°	2164	2202	2265
35°	2142	2201	2295
40°	2119	2205	2347
45°	2080	2211	2435
50°	2034	2229	2551
55°	1966	2289	2688
60°	1874	2354	2844
65°	1766	2436	3004
70°	1577	2501	3138
75°	1368	2505	2484
80°	1161	1852	2008
85°	1000	1250	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.0
10°-20°	225.8	8.7
20°-30°	344.1	13.2
30°-40°	421.0	16.1
40°-50°	453.0	17.4
50°-60°	438.8	16.8
60°-70°	371.7	14.3
70°-80°	224.7	8.6
80°-90°	49.4	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°	648.5	24.9
0°-40°	1069.5	41.0
0°-60°	1961.3	75.2
0°-90°	2607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	826	826	832	828	822	79
15°	796	798	800	802	804	225
25°	735	739	747	753	757	339
35°	652	656	670	688	698	408
45°	547	557	581	618	640	421
55°	419	437	488	545	573	374
65°	277	308	383	443	472	273
75°	132	178	241	245	239	141
85°	32	38	40	38	36	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	828.1	828.1	828.1	828.1	828.1
2.5°	838.2	836.2	830.1	826.0	822.0
5°	826.0	826.0	832.1	828.1	822.0
7.5°	820.0	820.0	820.0	830.1	820.0
10°	813.9	815.9	813.9	822.0	813.9
12.5°	807.8	807.8	807.8	809.8	809.8
15°	795.7	797.7	799.7	801.7	803.8
17.5°	783.5	785.5	789.6	791.6	793.6
20°	771.4	773.4	779.5	779.5	783.5
22.5°	755.2	755.2	763.3	765.3	771.4
25°	734.9	739.0	747.1	753.1	757.2
27.5°	716.7	720.8	728.8	736.9	743.0
30°	696.5	700.5	708.6	720.8	728.8
32.5°	674.2	678.2	690.4	704.6	712.7
35°	651.9	656.0	670.1	688.4	698.5
37.5°	627.6	633.7	649.9	670.1	682.3
40°	603.3	609.4	627.6	649.9	668.1
42.5°	575.0	583.1	603.3	633.7	653.9
45°	546.6	556.8	581.1	617.5	639.8
47.5°	516.3	526.4	554.7	601.3	625.6
50°	485.9	498.0	532.5	583.1	609.4
52.5°	453.5	465.7	510.2	564.9	593.2
55°	419.1	437.3	487.9	544.6	573.0
57.5°	384.7	404.9	461.6	522.3	552.7
60°	348.2	372.5	437.3	498.0	528.4
62.5°	313.8	340.1	411.0	471.7	502.1
65°	277.4	307.7	382.6	443.4	471.7
67.5°	238.9	277.4	350.3	409.0	437.3
70°	200.4	245.0	317.9	372.5	398.8
72.5°	166.0	212.6	281.4	328.0	328.0
75°	131.6	178.2	240.9	245.0	238.9
77.5°	101.2	145.8	188.3	172.1	176.1
80°	74.9	111.4	119.5	125.5	129.6
82.5°	50.6	74.9	76.9	81.0	81.0
85°	32.4	38.5	40.5	38.5	36.4
87.5°	14.2	16.2	12.1	8.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)