

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: P230837

Luminaire Tested: **22CZ-LD5-44SE-SQP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230837
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-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (56) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2602.0 lumens
Efficiency: N/A
Efficacy: 65.1 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

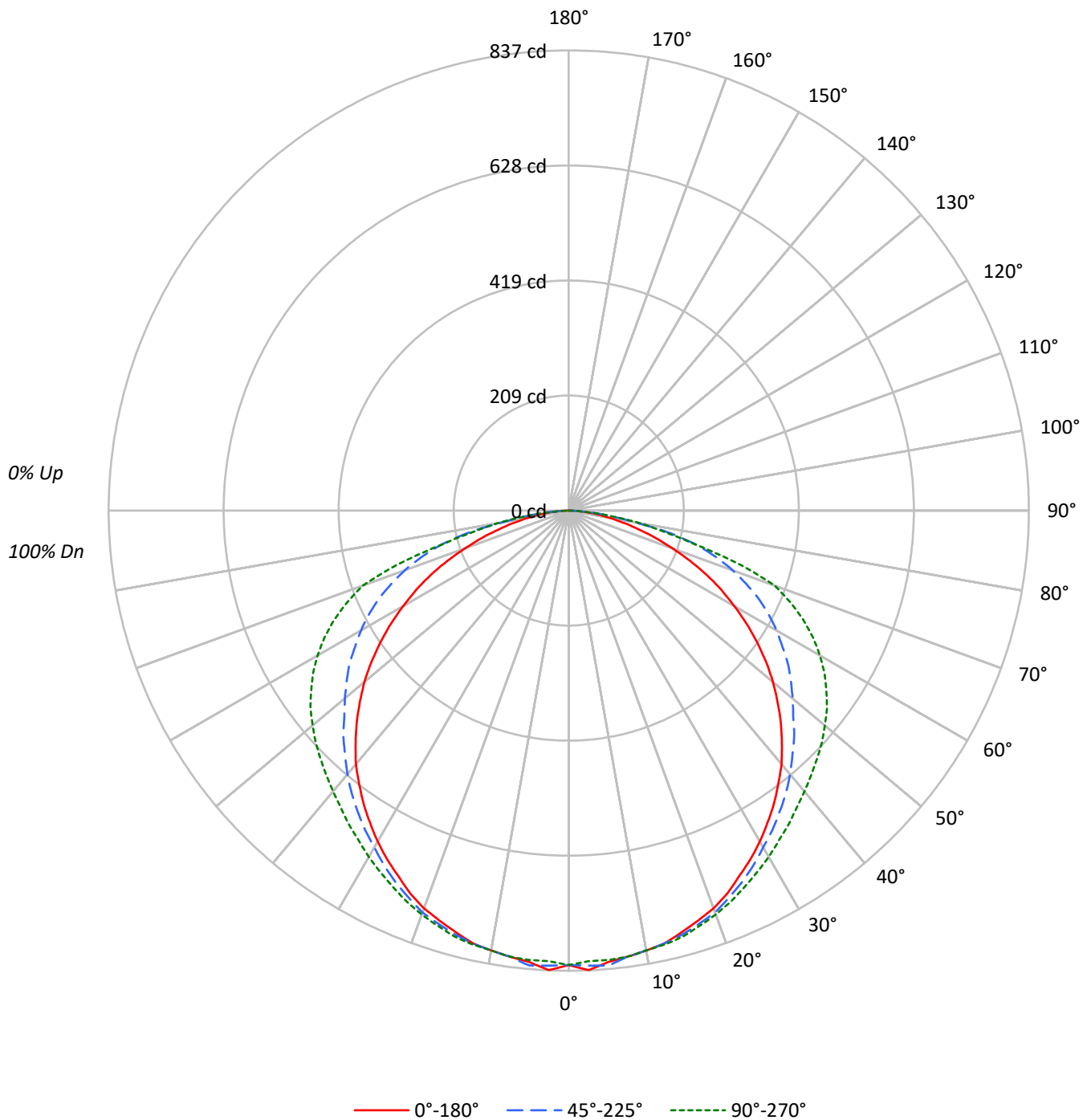
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2224	2224	2224
5°	2227	2243	2216
10°	2220	2220	2220
15°	2212	2224	2235
20°	2205	2228	2239
25°	2178	2214	2244
30°	2160	2197	2261
35°	2138	2197	2290
40°	2115	2200	2342
45°	2076	2207	2430
50°	2030	2225	2546
55°	1962	2285	2683
60°	1871	2349	2838
65°	1762	2432	2998
70°	1574	2496	3132
75°	1365	2501	2479
80°	1159	1847	2004
85°	997	1247	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	3.0
10°-20°	225.4	8.7
20°-30°	343.4	13.2
30°-40°	420.2	16.1
40°-50°	452.1	17.4
50°-60°	438.0	16.8
60°-70°	371.0	14.3
70°-80°	224.3	8.6
80°-90°	49.3	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°	647.2	24.9
0°-40°	1067.4	41.0
0°-60°	1957.5	75.2
0°-90°	2602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	824	824	830	826	820	78
15°	794	796	798	800	802	224
25°	734	738	746	752	756	339
35°	651	655	669	687	697	407
45°	546	556	580	616	638	421
55°	418	436	487	544	572	374
65°	277	307	382	442	471	273
75°	131	178	240	244	238	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°	826.5	826.5	826.5	826.5	826.5
2.5°	836.6	834.5	828.5	824.4	820.4
5°	824.4	824.4	830.5	826.5	820.4
7.5°	818.4	818.4	818.4	828.5	818.4
10°	812.3	814.3	812.3	820.4	812.3
12.5°	806.3	806.3	806.3	808.3	808.3
15°	794.1	796.2	798.2	800.2	802.2
17.5°	782.0	784.0	788.1	790.1	792.1
20°	769.9	771.9	778.0	778.0	782.0
22.5°	753.7	753.7	761.8	763.8	769.9
25°	733.5	737.6	745.6	751.7	755.7
27.5°	715.3	719.4	727.5	735.5	741.6
30°	695.1	699.2	707.2	719.4	727.5
32.5°	672.9	676.9	689.1	703.2	711.3
35°	650.7	654.7	668.9	687.0	697.1
37.5°	626.4	632.5	648.6	668.9	681.0
40°	602.2	608.2	626.4	648.6	666.8
42.5°	573.9	582.0	602.2	632.5	652.7
45°	545.6	555.7	579.9	616.3	638.5
47.5°	515.3	525.4	553.7	600.1	624.4
50°	485.0	497.1	531.4	582.0	608.2
52.5°	452.6	464.8	509.2	563.8	592.1
55°	418.3	436.5	487.0	543.6	571.9
57.5°	383.9	404.1	460.7	521.3	551.7
60°	347.6	371.8	436.5	497.1	527.4
62.5°	313.2	339.5	410.2	470.8	501.1
65°	276.8	307.1	381.9	442.5	470.8
67.5°	238.4	276.8	349.6	408.2	436.5
70°	200.0	244.5	317.2	371.8	398.1
72.5°	165.7	212.2	280.9	327.4	327.4
75°	131.3	177.8	240.5	244.5	238.4
77.5°	101.0	145.5	187.9	171.8	175.8
80°	74.8	111.1	119.2	125.3	129.3
82.5°	50.5	74.8	76.8	80.8	80.8
85°	32.3	38.4	40.4	38.4	36.4
87.5°	14.1	16.2	12.1	8.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)