

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: P260322

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260322  
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-L82765-W2A1-U-3000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2611.0 lumens  
Efficiency: N/A  
Efficacy: 76.1 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

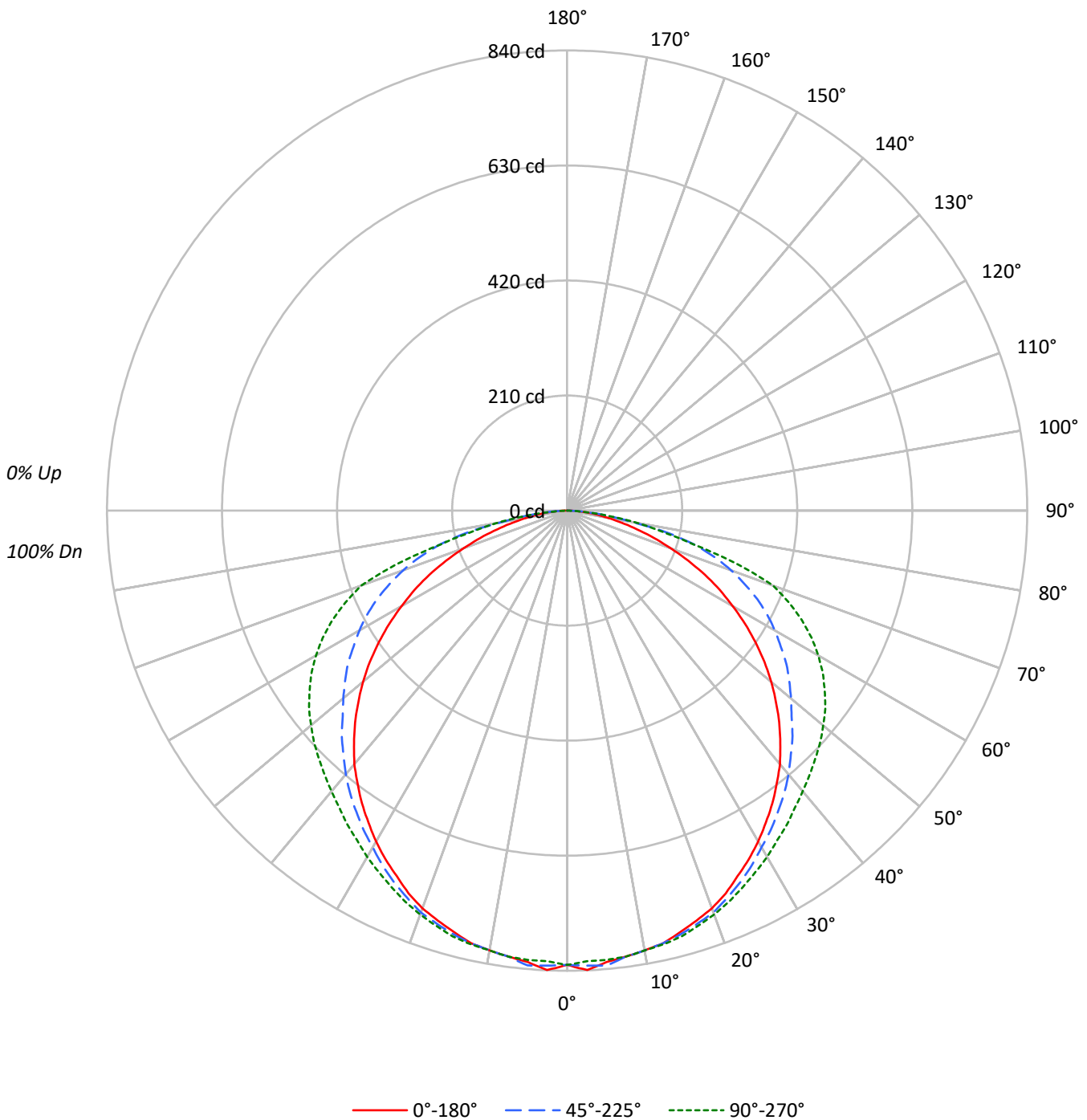
Input Watts (W): 34.317  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2232	2232	2232
5°	2235	2251	2224
10°	2227	2227	2227
15°	2220	2231	2243
20°	2212	2236	2247
25°	2186	2222	2252
30°	2167	2205	2268
35°	2145	2205	2298
40°	2123	2208	2350
45°	2084	2214	2438
50°	2037	2233	2555
55°	1969	2293	2692
60°	1877	2357	2848
65°	1769	2440	3009
70°	1579	2504	3143
75°	1370	2509	2488
80°	1162	1853	2011
85°	1000	1254	1127



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	3.0
10°-20°	226.1	8.7
20°-30°	344.6	13.2
30°-40°	421.6	16.1
40°-50°	453.7	17.4
50°-60°	439.5	16.8
60°-70°	372.3	14.3
70°-80°	225.0	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°	649.5	24.9
0°-40°	1071.1	41.0
0°-60°	1964.3	75.2
0°-90°	2611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2611.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	827	827	833	829	823	79
15°	797	799	801	803	805	225
25°	736	740	748	754	758	340
35°	653	657	671	689	700	408
45°	548	558	582	618	641	422
55°	420	438	489	545	574	375
65°	278	308	383	444	472	274
75°	132	178	241	245	239	142
85°	32	38	41	38	36	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	829.3	829.3	829.3	829.3	829.3
2.5°	839.5	837.4	831.4	827.3	823.2
5°	827.3	827.3	833.4	829.3	823.2
7.5°	821.2	821.2	821.2	831.4	821.2
10°	815.1	817.2	815.1	823.2	815.1
12.5°	809.0	809.0	809.0	811.1	811.1
15°	796.9	798.9	800.9	803.0	805.0
17.5°	784.7	786.7	790.8	792.8	794.9
20°	772.5	774.6	780.7	780.7	784.7
22.5°	756.3	756.3	764.4	766.5	772.5
25°	736.1	740.1	748.2	754.3	758.4
27.5°	717.8	721.9	730.0	738.1	744.2
30°	697.5	701.6	709.7	721.9	730.0
32.5°	675.2	679.3	691.4	705.6	713.7
35°	652.9	657.0	671.2	689.4	699.6
37.5°	628.6	634.7	650.9	671.2	683.3
40°	604.3	610.3	628.6	650.9	669.1
42.5°	575.9	584.0	604.3	634.7	654.9
45°	547.5	557.6	581.9	618.4	640.7
47.5°	517.1	527.2	555.6	602.2	626.6
50°	486.6	498.8	533.3	584.0	610.3
52.5°	454.2	466.4	511.0	565.7	594.1
55°	419.7	438.0	488.7	545.4	573.8
57.5°	385.3	405.5	462.3	523.1	553.6
60°	348.8	373.1	438.0	498.8	529.2
62.5°	314.3	340.7	411.6	472.5	502.9
65°	277.8	308.2	383.2	444.1	472.5
67.5°	239.3	277.8	350.8	409.6	438.0
70°	200.7	245.4	318.3	373.1	399.5
72.5°	166.3	212.9	281.8	328.5	328.5
75°	131.8	178.4	241.3	245.4	239.3
77.5°	101.4	146.0	188.6	172.4	176.4
80°	75.0	111.5	119.6	125.7	129.8
82.5°	50.7	75.0	77.1	81.1	81.1
85°	32.4	38.5	40.6	38.5	36.5
87.5°	14.2	16.2	12.2	8.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)