

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: P277575

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277575  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-34HE-RDP-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1967.0 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

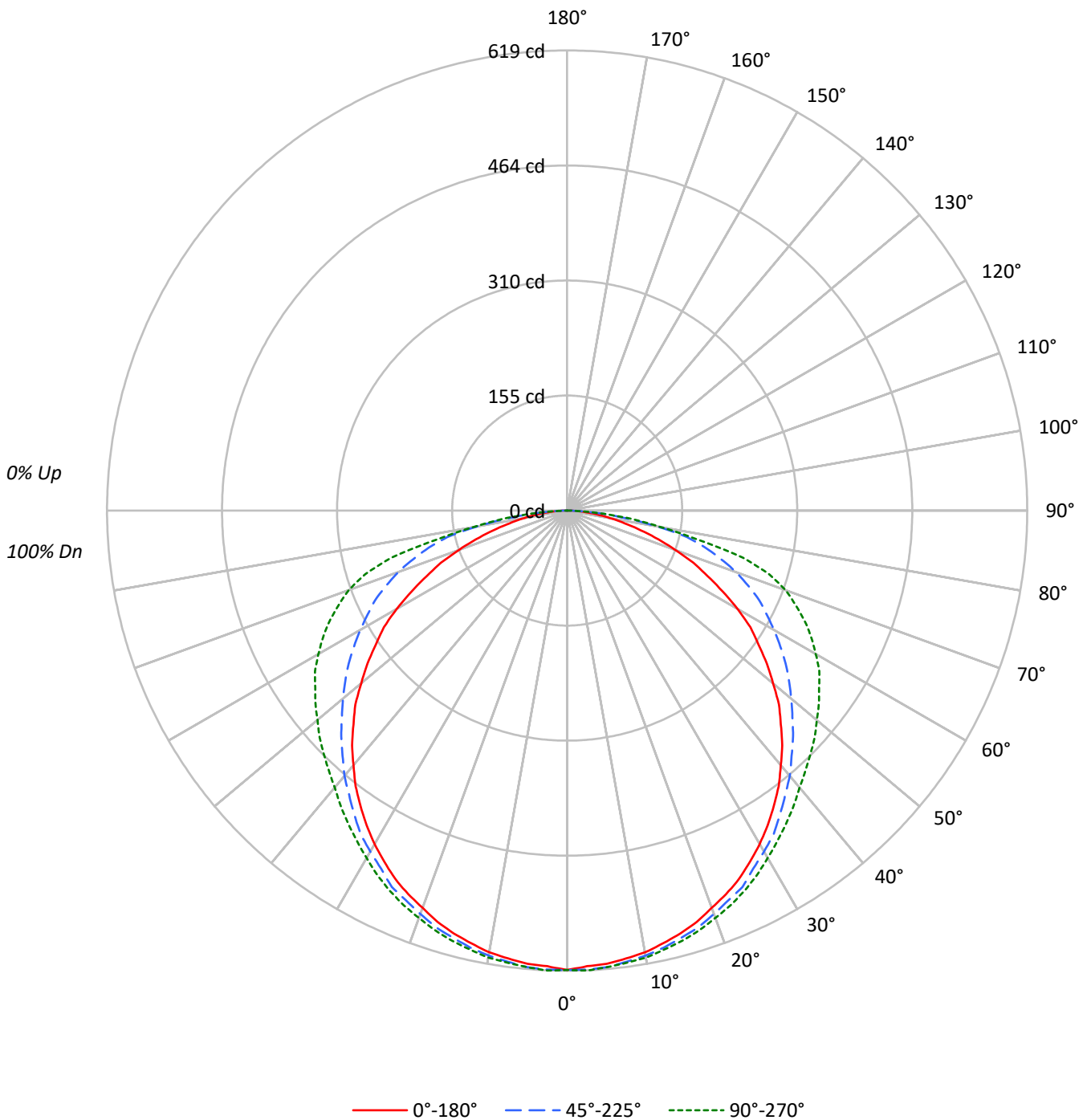
Input Watts (W): 25.668  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72		80	75	71		76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

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

	0°	45°	90°
0°	1663	1663	1663
5°	1653	1665	1665
10°	1649	1661	1668
15°	1641	1657	1669
20°	1629	1653	1670
25°	1624	1658	1676
30°	1610	1646	1677
35°	1592	1640	1688
40°	1571	1637	1708
45°	1547	1636	1762
50°	1514	1648	1835
55°	1473	1684	1941
60°	1425	1729	2079
65°	1327	1815	2248
70°	1218	1901	2460
75°	1068	2001	2542
80°	919	1906	1996
85°	803	1386	1519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	3.0
10°-20°	167.8	8.5
20°-30°	256.0	13.0
30°-40°	312.6	15.9
40°-50°	334.3	17.0
50°-60°	322.6	16.4
60°-70°	277.7	14.1
70°-80°	187.9	9.6
80°-90°	49.6	2.5
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°	482.3	24.5
0°-40°	794.9	40.4
0°-60°	1451.8	73.8
0°-90°	1967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	612	614	616	616	616	58
15°	589	590	595	598	599	166
25°	547	550	558	561	564	252
35°	485	489	499	509	514	303
45°	407	414	430	452	463	314
55°	314	324	359	395	414	281
65°	208	229	285	330	353	207
75°	103	136	192	232	244	110
85°	26	36	45	46	49	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	617.9	617.9	617.9	617.9	617.9
2.5°	613.5	615.0	617.9	617.9	619.3
5°	612.1	613.5	616.4	616.4	616.4
7.5°	607.7	609.2	612.1	613.5	613.5
10°	603.4	604.8	607.7	609.2	610.6
12.5°	596.2	597.6	602.0	604.8	604.8
15°	588.9	590.4	594.7	597.6	599.1
17.5°	580.2	583.1	587.5	590.4	591.8
20°	568.7	571.6	577.4	581.7	583.1
22.5°	558.5	561.4	567.2	571.6	574.5
25°	547.0	549.9	558.5	561.4	564.3
27.5°	532.5	535.4	542.6	548.4	552.8
30°	518.0	520.9	529.6	536.8	539.7
32.5°	502.1	506.4	516.6	522.4	526.7
35°	484.7	489.1	499.2	509.3	513.7
37.5°	467.4	471.7	481.9	494.9	500.7
40°	447.1	452.9	465.9	483.3	486.2
42.5°	428.3	435.5	447.1	467.4	474.6
45°	406.6	413.8	429.8	451.5	463.0
47.5°	386.3	393.6	410.9	437.0	451.5
50°	361.7	371.9	393.6	424.0	438.4
52.5°	338.6	347.3	376.2	409.5	426.9
55°	314.0	324.1	358.9	395.0	413.8
57.5°	292.3	301.0	340.0	380.6	402.3
60°	264.8	276.4	321.2	364.6	386.3
62.5°	235.9	253.2	302.4	347.3	370.4
65°	208.4	228.6	285.1	329.9	353.1
67.5°	183.8	205.5	263.4	311.1	332.8
70°	154.8	182.3	241.6	288.0	312.6
72.5°	128.8	159.2	217.0	263.4	285.1
75°	102.7	136.0	192.5	231.5	244.5
77.5°	79.6	111.4	165.0	176.5	178.0
80°	59.3	88.3	123.0	124.4	128.8
82.5°	40.5	62.2	79.6	86.8	88.3
85°	26.0	36.2	44.9	46.3	49.2
87.5°	11.6	13.0	15.9	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)