

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: P277629

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277629  
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-L92765-W2A1-U-2700K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1679.0 lumens  
Efficiency: N/A  
Efficacy: 65.7 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

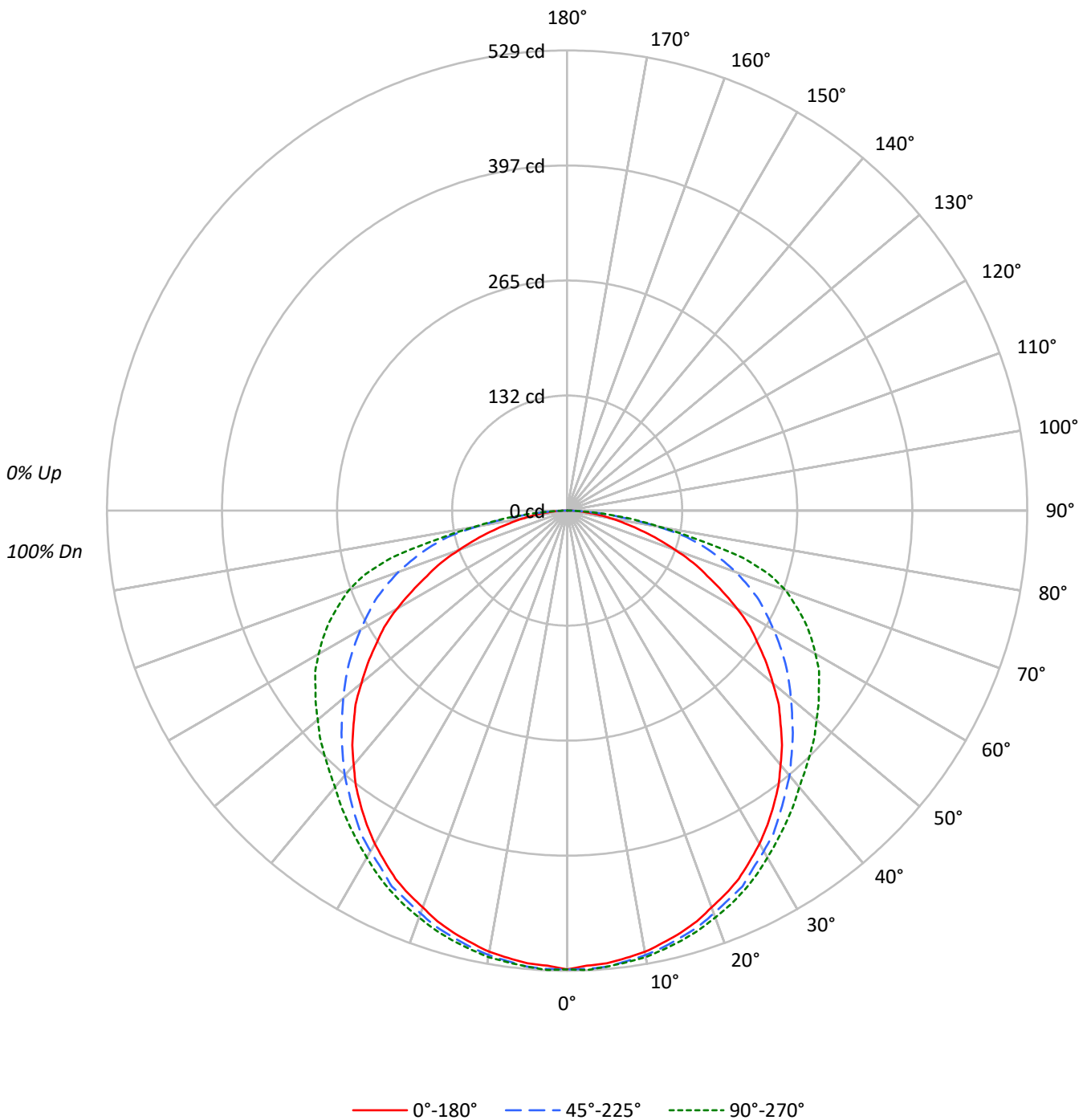
Input Watts (W): 25.575  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1419	1419	1419
5°	1411	1421	1421
10°	1408	1418	1424
15°	1400	1414	1424
20°	1390	1411	1426
25°	1386	1416	1430
30°	1374	1405	1432
35°	1359	1400	1441
40°	1341	1397	1458
45°	1321	1396	1504
50°	1293	1407	1567
55°	1257	1437	1657
60°	1216	1476	1775
65°	1133	1549	1919
70°	1040	1623	2099
75°	912	1708	2170
80°	784	1627	1703
85°	685	1183	1297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.9	3.0
10°-20°	143.2	8.5
20°-30°	218.5	13.0
30°-40°	266.8	15.9
40°-50°	285.3	17.0
50°-60°	275.4	16.4
60°-70°	237.1	14.1
70°-80°	160.4	9.6
80°-90°	42.3	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°	411.7	24.5
0°-40°	678.5	40.4
0°-60°	1239.2	73.8
0°-90°	1679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	527	527	527	527	527	
5°	522	524	526	526	526	50
15°	503	504	508	510	511	142
25°	467	469	477	479	482	215
35°	414	418	426	435	438	259
45°	347	353	367	385	395	268
55°	268	277	306	337	353	240
65°	178	195	243	282	301	177
75°	88	116	164	198	209	94
85°	22	31	38	40	42	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	527.4	527.4	527.4	527.4	527.4
2.5°	523.7	524.9	527.4	527.4	528.6
5°	522.5	523.7	526.2	526.2	526.2
7.5°	518.8	520.0	522.5	523.7	523.7
10°	515.1	516.3	518.8	520.0	521.2
12.5°	508.9	510.1	513.8	516.3	516.3
15°	502.7	503.9	507.6	510.1	511.3
17.5°	495.3	497.8	501.5	503.9	505.2
20°	485.4	487.9	492.8	496.5	497.8
22.5°	476.8	479.2	484.2	487.9	490.3
25°	466.9	469.4	476.8	479.2	481.7
27.5°	454.5	457.0	463.2	468.1	471.8
30°	442.2	444.6	452.1	458.2	460.7
32.5°	428.6	432.3	440.9	445.9	449.6
35°	413.8	417.5	426.1	434.8	438.5
37.5°	398.9	402.7	411.3	422.4	427.4
40°	381.7	386.6	397.7	412.5	415.0
42.5°	365.6	371.8	381.7	398.9	405.1
45°	347.1	353.2	366.8	385.4	395.2
47.5°	329.8	336.0	350.8	373.0	385.4
50°	308.8	317.4	336.0	361.9	374.2
52.5°	289.0	296.4	321.1	349.5	364.4
55°	268.0	276.7	306.3	337.2	353.2
57.5°	249.5	256.9	290.3	324.8	343.4
60°	226.0	235.9	274.2	311.3	329.8
62.5°	201.3	216.1	258.1	296.4	316.2
65°	177.9	195.2	243.3	281.6	301.4
67.5°	156.9	175.4	224.8	265.6	284.1
70°	132.2	155.6	206.3	245.8	266.8
72.5°	109.9	135.9	185.3	224.8	243.3
75°	87.7	116.1	164.3	197.6	208.7
77.5°	67.9	95.1	140.8	150.7	151.9
80°	50.6	75.3	105.0	106.2	109.9
82.5°	34.6	53.1	67.9	74.1	75.3
85°	22.2	30.9	38.3	39.5	42.0
87.5°	9.9	11.1	13.6	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)