

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: P277564

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277564  
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: 22CZ2-24HE-RDP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1585.0 lumens  
Efficiency: N/A  
Efficacy: 87.9 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

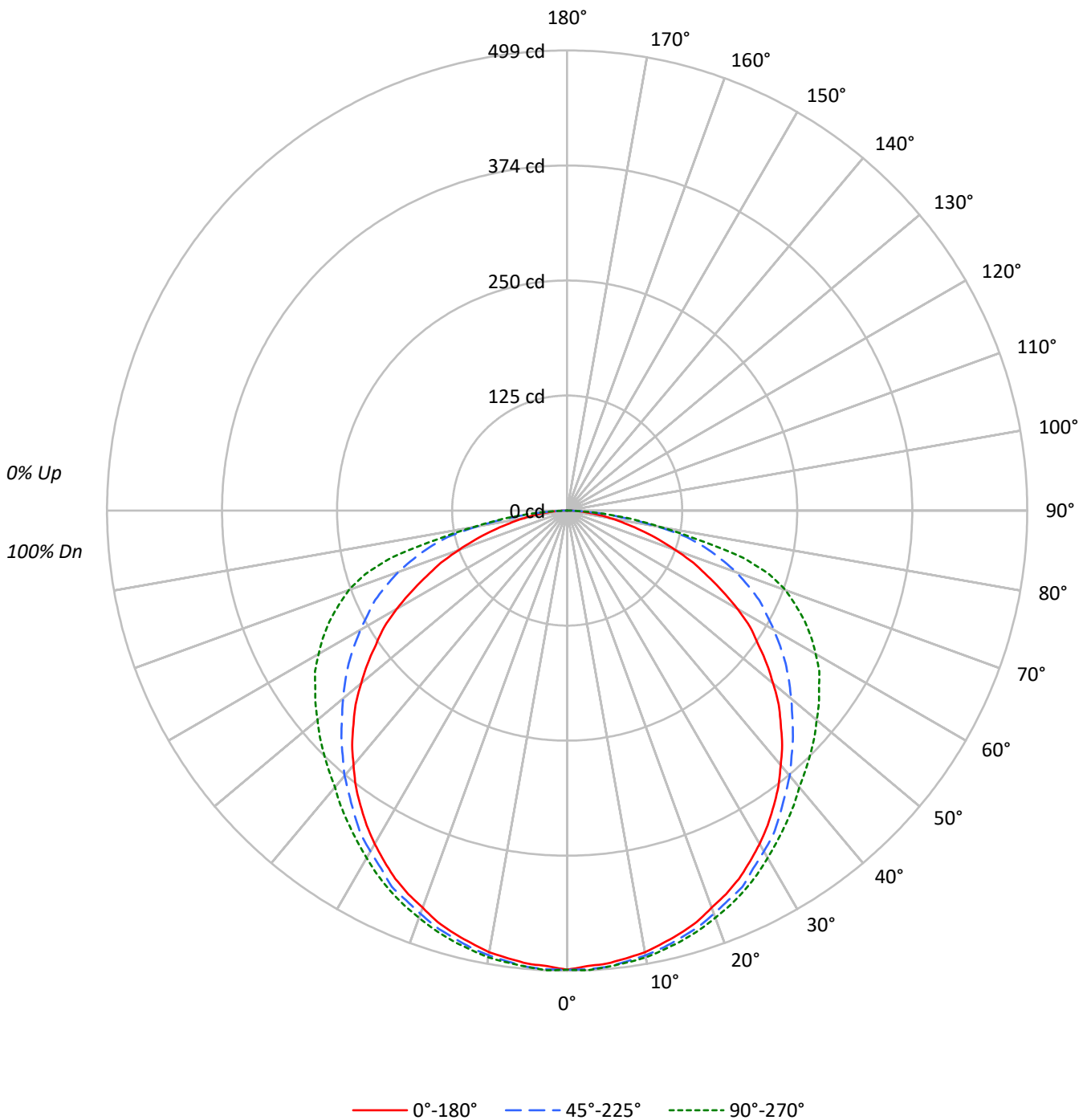
Input Watts (W): 18.042  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1340	1340	1340
5°	1332	1342	1342
10°	1329	1338	1344
15°	1322	1335	1345
20°	1312	1332	1346
25°	1309	1336	1350
30°	1297	1326	1351
35°	1283	1322	1360
40°	1266	1319	1376
45°	1247	1318	1420
50°	1220	1328	1479
55°	1187	1357	1565
60°	1149	1393	1675
65°	1069	1463	1812
70°	982	1532	1982
75°	861	1613	2049
80°	741	1536	1609
85°	648	1115	1223



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.1	3.0
10°-20°	135.2	8.5
20°-30°	206.3	13.0
30°-40°	251.9	15.9
40°-50°	269.3	17.0
50°-60°	260.0	16.4
60°-70°	223.8	14.1
70°-80°	151.4	9.6
80°-90°	39.9	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°	388.6	24.5
0°-40°	640.5	40.4
0°-60°	1169.8	73.8
0°-90°	1585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	498	498	498	498	498	
5°	493	494	497	497	497	47
15°	475	476	479	482	483	134
25°	441	443	450	452	455	203
35°	391	394	402	410	414	244
45°	328	334	346	364	373	253
55°	253	261	289	318	334	227
65°	168	184	230	266	284	167
75°	83	110	155	187	197	89
85°	21	29	36	37	40	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	497.9	497.9	497.9	497.9	497.9
2.5°	494.4	495.5	497.9	497.9	499.0
5°	493.2	494.4	496.7	496.7	496.7
7.5°	489.7	490.9	493.2	494.4	494.4
10°	486.2	487.4	489.7	490.9	492.0
12.5°	480.4	481.6	485.1	487.4	487.4
15°	474.6	475.7	479.2	481.6	482.7
17.5°	467.6	469.9	473.4	475.7	476.9
20°	458.2	460.6	465.2	468.7	469.9
22.5°	450.1	452.4	457.1	460.6	462.9
25°	440.7	443.1	450.1	452.4	454.7
27.5°	429.1	431.4	437.2	441.9	445.4
30°	417.4	419.8	426.8	432.6	434.9
32.5°	404.6	408.1	416.3	420.9	424.4
35°	390.6	394.1	402.3	410.4	413.9
37.5°	376.6	380.1	388.3	398.8	403.4
40°	360.3	365.0	375.4	389.4	391.8
42.5°	345.1	351.0	360.3	376.6	382.4
45°	327.6	333.5	346.3	363.8	373.1
47.5°	311.3	317.1	331.1	352.1	363.8
50°	291.5	299.7	317.1	341.6	353.3
52.5°	272.8	279.8	303.2	330.0	344.0
55°	253.0	261.2	289.2	318.3	333.5
57.5°	235.5	242.5	274.0	306.7	324.1
60°	213.4	222.7	258.8	293.8	311.3
62.5°	190.1	204.0	243.7	279.8	298.5
65°	167.9	184.2	229.7	265.8	284.5
67.5°	148.1	165.6	212.2	250.7	268.2
70°	124.8	146.9	194.7	232.0	251.9
72.5°	103.8	128.3	174.9	212.2	229.7
75°	82.8	109.6	155.1	186.6	197.1
77.5°	64.1	89.8	132.9	142.3	143.4
80°	47.8	71.1	99.1	100.3	103.8
82.5°	32.6	50.1	64.1	70.0	71.1
85°	21.0	29.1	36.1	37.3	39.6
87.5°	9.3	10.5	12.8	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)