

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: P277583

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277583  
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-6500K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2241.0 lumens  
Efficiency: N/A  
Efficacy: 83.7 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

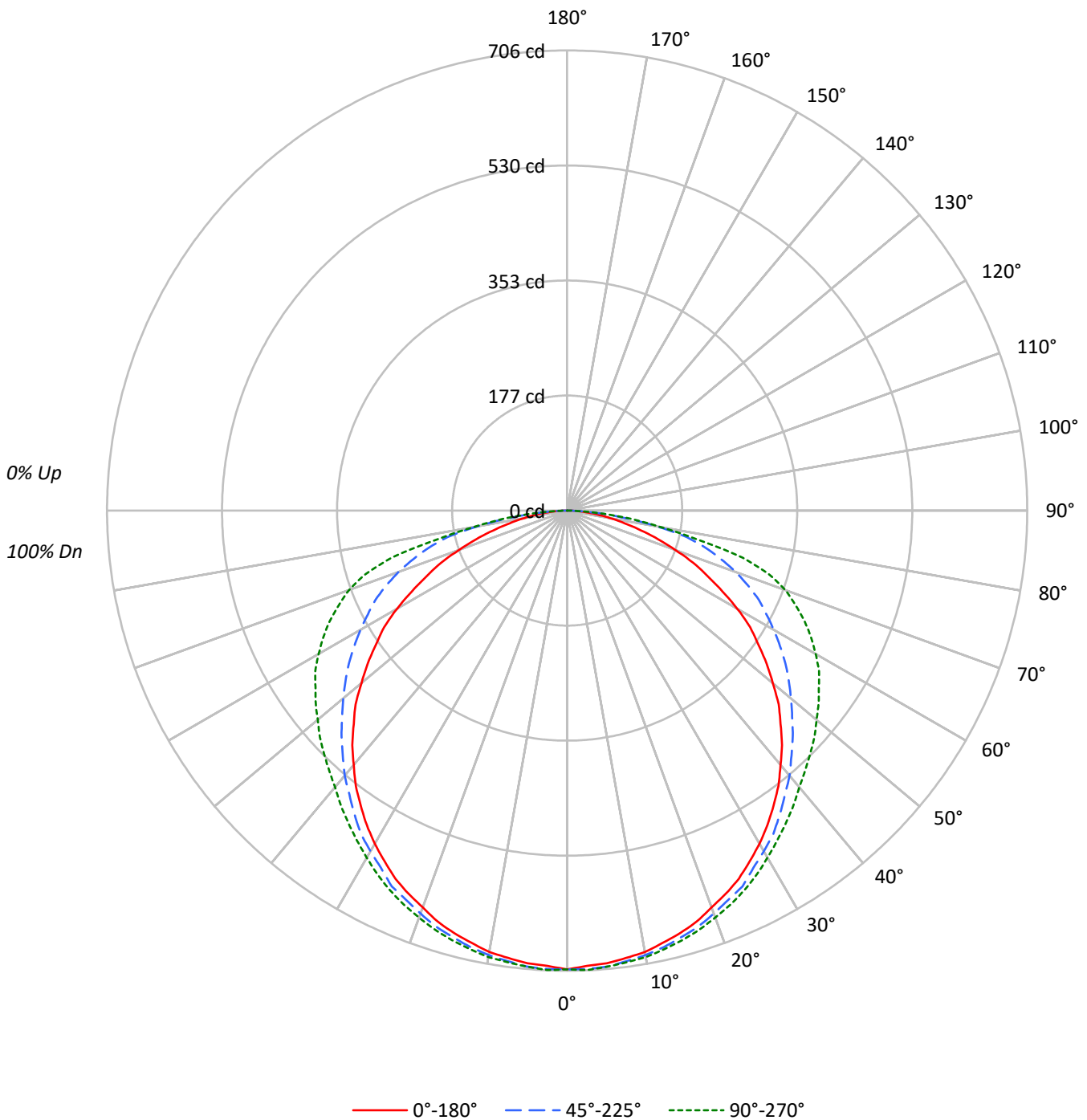
Input Watts (W): 26.784  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

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

	0°	45°	90°
0°	1894	1894	1894
5°	1884	1897	1897
10°	1879	1892	1901
15°	1869	1888	1901
20°	1855	1884	1903
25°	1850	1889	1909
30°	1834	1875	1911
35°	1814	1869	1922
40°	1789	1865	1946
45°	1763	1863	2007
50°	1725	1877	2091
55°	1678	1918	2212
60°	1624	1970	2369
65°	1512	2068	2561
70°	1388	2166	2802
75°	1216	2280	2897
80°	1048	2171	2273
85°	917	1578	1732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	3.0
10°-20°	191.2	8.5
20°-30°	291.7	13.0
30°-40°	356.2	15.9
40°-50°	380.8	17.0
50°-60°	367.6	16.4
60°-70°	316.4	14.1
70°-80°	214.1	9.6
80°-90°	56.5	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°	549.5	24.5
0°-40°	905.6	40.4
0°-60°	1654.0	73.8
0°-90°	2241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2241.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	697	699	702	702	702	66
15°	671	673	678	681	682	189
25°	623	626	636	640	643	287
35°	552	557	569	580	585	346
45°	463	472	490	514	528	358
55°	358	369	409	450	472	321
65°	237	260	325	376	402	236
75°	117	155	219	264	279	126
85°	30	41	51	53	56	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	703.9	703.9	703.9	703.9	703.9
2.5°	699.0	700.6	703.9	703.9	705.6
5°	697.3	699.0	702.3	702.3	702.3
7.5°	692.4	694.0	697.3	699.0	699.0
10°	687.5	689.1	692.4	694.0	695.7
12.5°	679.2	680.9	685.8	689.1	689.1
15°	671.0	672.6	677.6	680.9	682.5
17.5°	661.1	664.4	669.3	672.6	674.3
20°	647.9	651.2	657.8	662.7	664.4
22.5°	636.3	639.6	646.2	651.2	654.5
25°	623.2	626.5	636.3	639.6	642.9
27.5°	606.7	610.0	618.2	624.8	629.8
30°	590.2	593.5	603.4	611.6	614.9
32.5°	572.1	577.0	588.5	595.1	600.1
35°	552.3	557.2	568.8	580.3	585.2
37.5°	532.5	537.4	549.0	563.8	570.4
40°	509.4	516.0	530.8	550.6	553.9
42.5°	488.0	496.2	509.4	532.5	540.7
45°	463.2	471.5	489.6	514.4	527.5
47.5°	440.2	448.4	468.2	497.9	514.4
50°	412.1	423.7	448.4	483.0	499.5
52.5°	385.8	395.7	428.6	466.5	486.3
55°	357.7	369.3	408.8	450.1	471.5
57.5°	333.0	342.9	387.4	433.6	458.3
60°	301.7	314.9	366.0	415.4	440.2
62.5°	268.7	288.5	344.6	395.7	422.0
65°	237.4	260.5	324.8	375.9	402.2
67.5°	209.4	234.1	300.0	354.4	379.2
70°	176.4	207.7	275.3	328.1	356.1
72.5°	146.7	181.3	247.3	300.0	324.8
75°	117.0	155.0	219.3	263.8	278.6
77.5°	90.7	126.9	187.9	201.1	202.8
80°	67.6	100.6	140.1	141.8	146.7
82.5°	46.2	70.9	90.7	98.9	100.6
85°	29.7	41.2	51.1	52.8	56.1
87.5°	13.2	14.8	18.1	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)