

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: P277505

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277505  
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-L83050-W2A1-U-4000K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2250.0 lumens  
Efficiency: N/A  
Efficacy: 85.8 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

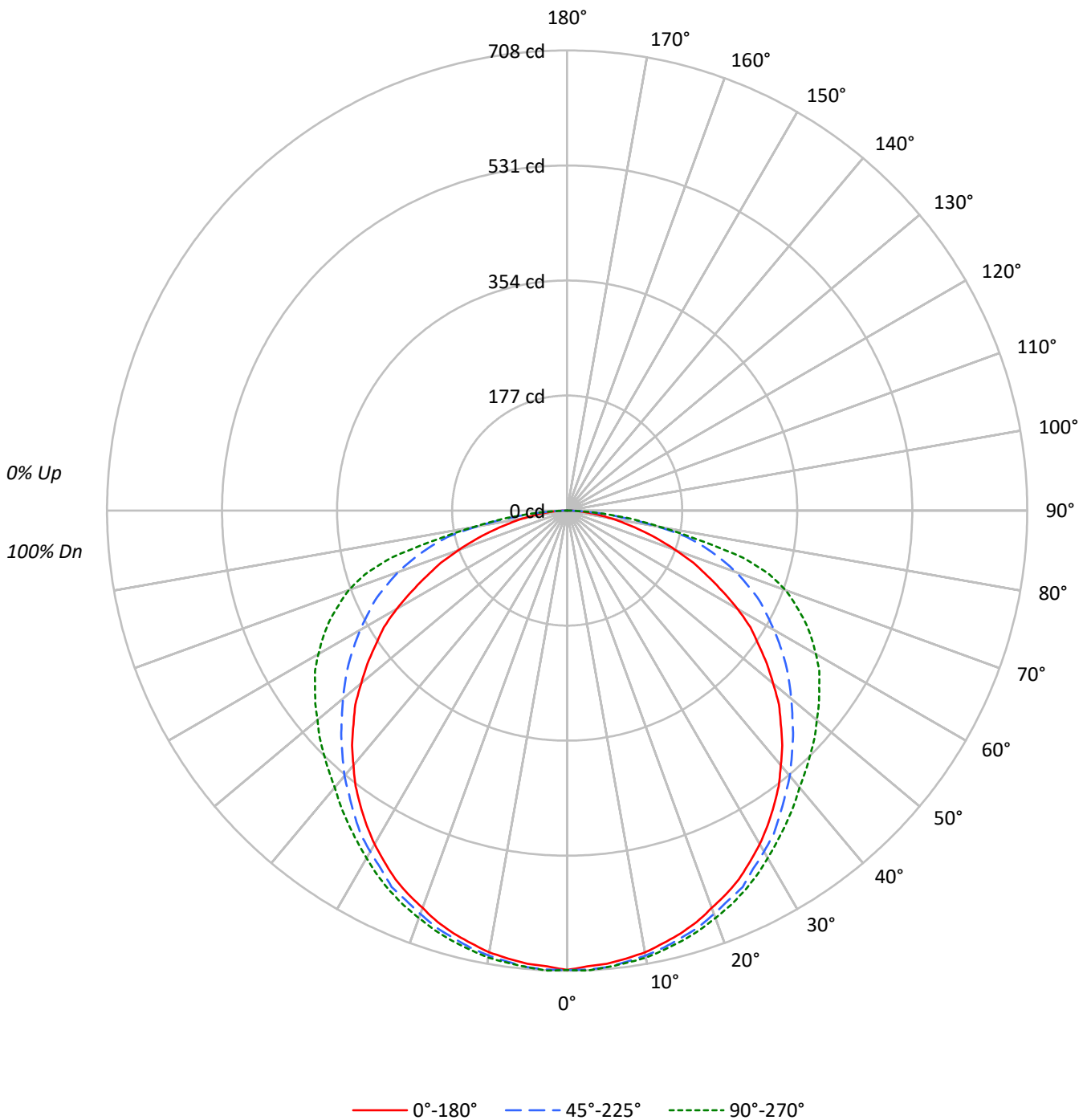
Input Watts (W): 26.226  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1902	1902	1902
5°	1891	1905	1905
10°	1886	1900	1909
15°	1877	1895	1909
20°	1863	1891	1910
25°	1858	1897	1917
30°	1841	1882	1918
35°	1822	1876	1930
40°	1797	1872	1953
45°	1770	1871	2016
50°	1732	1885	2099
55°	1685	1926	2221
60°	1630	1978	2378
65°	1517	2076	2572
70°	1393	2175	2813
75°	1222	2288	2908
80°	1052	2180	2283
85°	920	1584	1738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.9	3.0
10°-20°	192.0	8.5
20°-30°	292.9	13.0
30°-40°	357.6	15.9
40°-50°	382.3	17.0
50°-60°	369.0	16.4
60°-70°	317.7	14.1
70°-80°	214.9	9.6
80°-90°	56.7	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°	551.7	24.5
0°-40°	909.3	40.4
0°-60°	1660.7	73.8
0°-90°	2250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	700	702	705	705	705	66
15°	674	675	680	684	685	190
25°	626	629	639	642	646	288
35°	554	560	571	583	588	347
45°	465	473	492	516	530	359
55°	359	371	410	452	473	322
65°	238	262	326	377	404	237
75°	118	156	220	265	280	126
85°	30	41	51	53	56	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	706.8	706.8	706.8	706.8	706.8
2.5°	701.8	703.5	706.8	706.8	708.4
5°	700.1	701.8	705.1	705.1	705.1
7.5°	695.2	696.8	700.1	701.8	701.8
10°	690.2	691.9	695.2	696.8	698.5
12.5°	681.9	683.6	688.6	691.9	691.9
15°	673.7	675.3	680.3	683.6	685.2
17.5°	663.7	667.0	672.0	675.3	677.0
20°	650.5	653.8	660.4	665.4	667.0
22.5°	638.9	642.2	648.8	653.8	657.1
25°	625.7	629.0	638.9	642.2	645.5
27.5°	609.1	612.4	620.7	627.3	632.3
30°	592.6	595.9	605.8	614.1	617.4
32.5°	574.3	579.3	590.9	597.5	602.5
35°	554.5	559.5	571.0	582.6	587.6
37.5°	534.6	539.6	551.2	566.1	572.7
40°	511.5	518.1	533.0	552.8	556.1
42.5°	489.9	498.2	511.5	534.6	542.9
45°	465.1	473.4	491.6	516.4	529.7
47.5°	441.9	450.2	470.1	499.9	516.4
50°	413.8	425.4	450.2	485.0	501.5
52.5°	387.3	397.2	430.3	468.4	488.3
55°	359.2	370.8	410.5	451.9	473.4
57.5°	334.3	344.3	389.0	435.3	460.1
60°	302.9	316.1	367.5	417.1	441.9
62.5°	269.8	289.7	345.9	397.2	423.7
65°	238.3	261.5	326.1	377.4	403.9
67.5°	210.2	235.0	301.2	355.9	380.7
70°	177.1	208.6	276.4	329.4	357.5
72.5°	147.3	182.1	248.3	301.2	326.1
75°	117.5	155.6	220.1	264.8	279.7
77.5°	91.0	127.4	188.7	201.9	203.6
80°	67.9	101.0	140.7	142.3	147.3
82.5°	46.3	71.2	91.0	99.3	101.0
85°	29.8	41.4	51.3	53.0	56.3
87.5°	13.2	14.9	18.2	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)