

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: P260471

Luminaire Tested: **22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2324.0 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

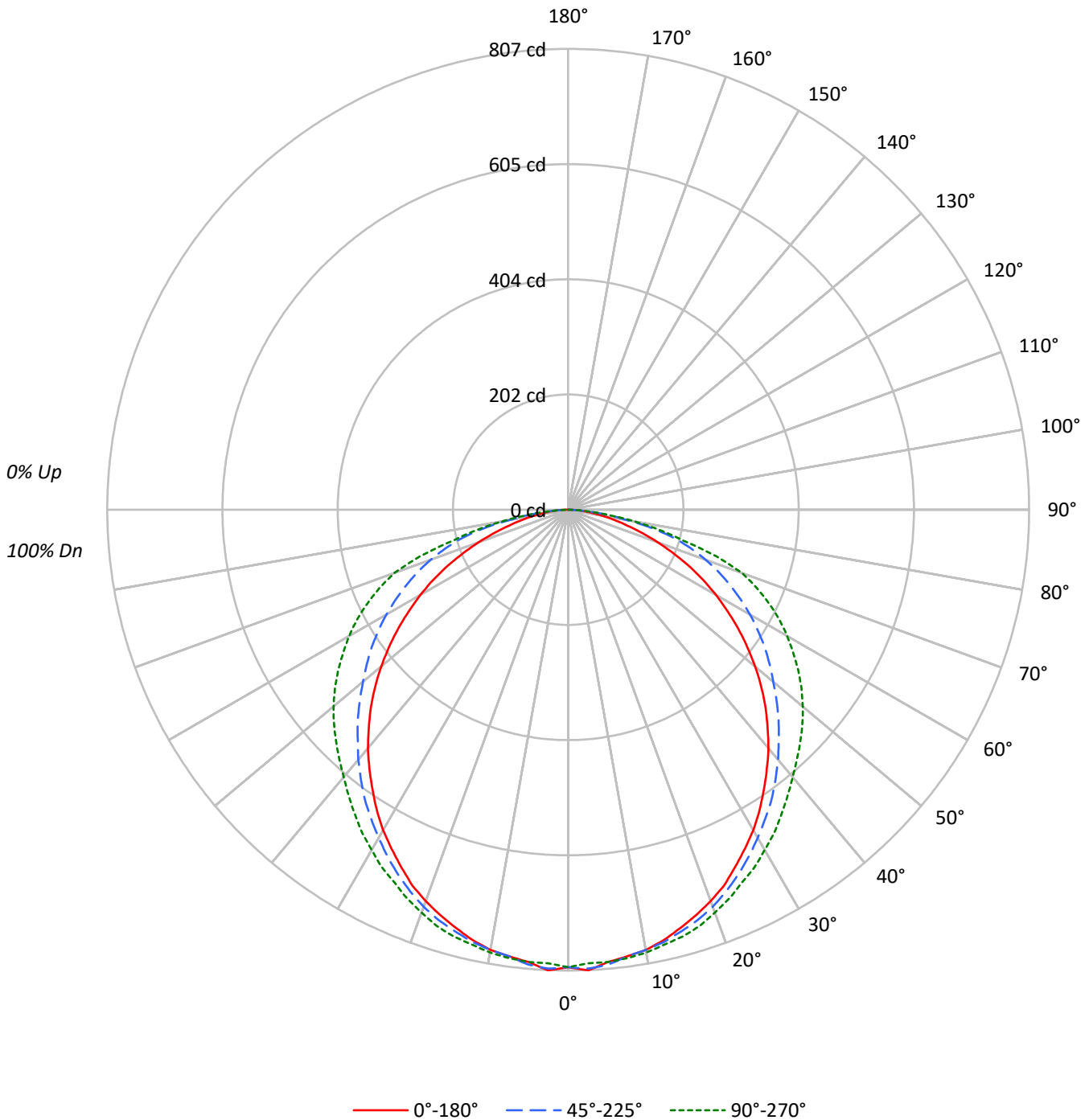
Input Watts (W): 25.668  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P260471

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P260471

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-2700K

**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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

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

	0°	45°	90°
0°	2156	2156	2156
5°	2148	2160	2148
10°	2139	2139	2152
15°	2113	2130	2155
20°	2088	2119	2150
25°	2051	2092	2138
30°	2014	2061	2137
35°	1963	2038	2139
40°	1916	2007	2147
45°	1860	1982	2186
50°	1789	1963	2245
55°	1704	1970	2307
60°	1608	1979	2383
65°	1483	1990	2468
70°	1314	2013	2543
75°	1115	2007	2166
80°	925	1615	1804
85°	803	1087	1041



TEST NUMBER: P260471

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	3.3
10°-20°	215.9	9.3
20°-30°	324.9	14.0
30°-40°	389.3	16.8
40°-50°	406.0	17.5
50°-60°	378.0	16.3
60°-70°	306.9	13.2
70°-80°	184.9	8.0
80°-90°	42.4	1.8
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°	616.5	26.5
0°-40°	1005.8	43.3
0°-60°	1789.7	77.0
0°-90°	2324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2324.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	795	795	800	801	795	76
15°	758	761	764	769	774	214
25°	691	696	705	714	720	318
35°	598	605	620	639	651	374
45°	489	498	521	555	574	376
55°	363	378	420	466	492	325
65°	233	257	312	362	388	230
75°	107	142	193	205	208	116
85°	26	32	35	34	34	30
90°	0	0	0	0	0	



TEST NUMBER: P260471

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	801.2	801.2	801.2	801.2	801.2
2.5°	807.4	805.8	804.3	799.7	795.1
5°	795.1	795.1	799.7	801.2	795.1
7.5°	789.0	789.0	789.0	795.1	792.0
10°	782.8	782.8	782.8	787.4	787.4
12.5°	772.1	773.7	775.2	776.7	779.8
15°	758.3	761.4	764.5	769.1	773.7
17.5°	744.5	747.6	753.7	758.3	764.5
20°	729.2	732.3	739.9	744.5	750.7
22.5°	712.4	713.9	723.1	729.2	736.9
25°	690.9	695.5	704.7	713.9	720.0
27.5°	669.5	674.1	684.8	697.1	706.2
30°	648.0	652.6	663.3	678.7	687.9
32.5°	623.5	629.6	641.9	660.3	671.0
35°	597.5	605.1	620.5	638.8	651.1
37.5°	571.4	579.1	595.9	618.9	631.2
40°	545.4	553.0	571.4	595.9	611.3
42.5°	516.3	525.5	545.4	574.5	592.9
45°	488.7	497.9	520.9	554.6	574.5
47.5°	458.1	468.8	494.8	533.1	556.1
50°	427.4	439.7	468.8	511.7	536.2
52.5°	395.3	409.0	444.3	488.7	514.7
55°	363.1	378.4	419.8	465.7	491.8
57.5°	330.9	347.8	393.7	441.2	467.3
60°	298.7	317.1	367.7	416.7	442.7
62.5°	266.6	286.5	340.1	389.1	416.7
65°	232.9	257.4	312.5	361.5	387.6
67.5°	199.2	228.3	284.9	332.4	357.0
70°	167.0	199.2	255.8	300.3	323.2
72.5°	136.3	170.1	225.2	263.5	272.7
75°	107.2	142.5	193.0	205.3	208.3
77.5°	82.7	114.9	153.2	156.3	163.9
80°	59.7	87.3	104.2	113.4	116.4
82.5°	41.4	59.7	68.9	70.5	72.0
85°	26.0	32.2	35.2	33.7	33.7
87.5°	13.8	12.3	10.7	7.7	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)