

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: P260401

Luminaire Tested: **22CZ-LD5-34-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260401
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-L83050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2659.0 lumens
Efficiency: N/A
Efficacy: 101.4 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

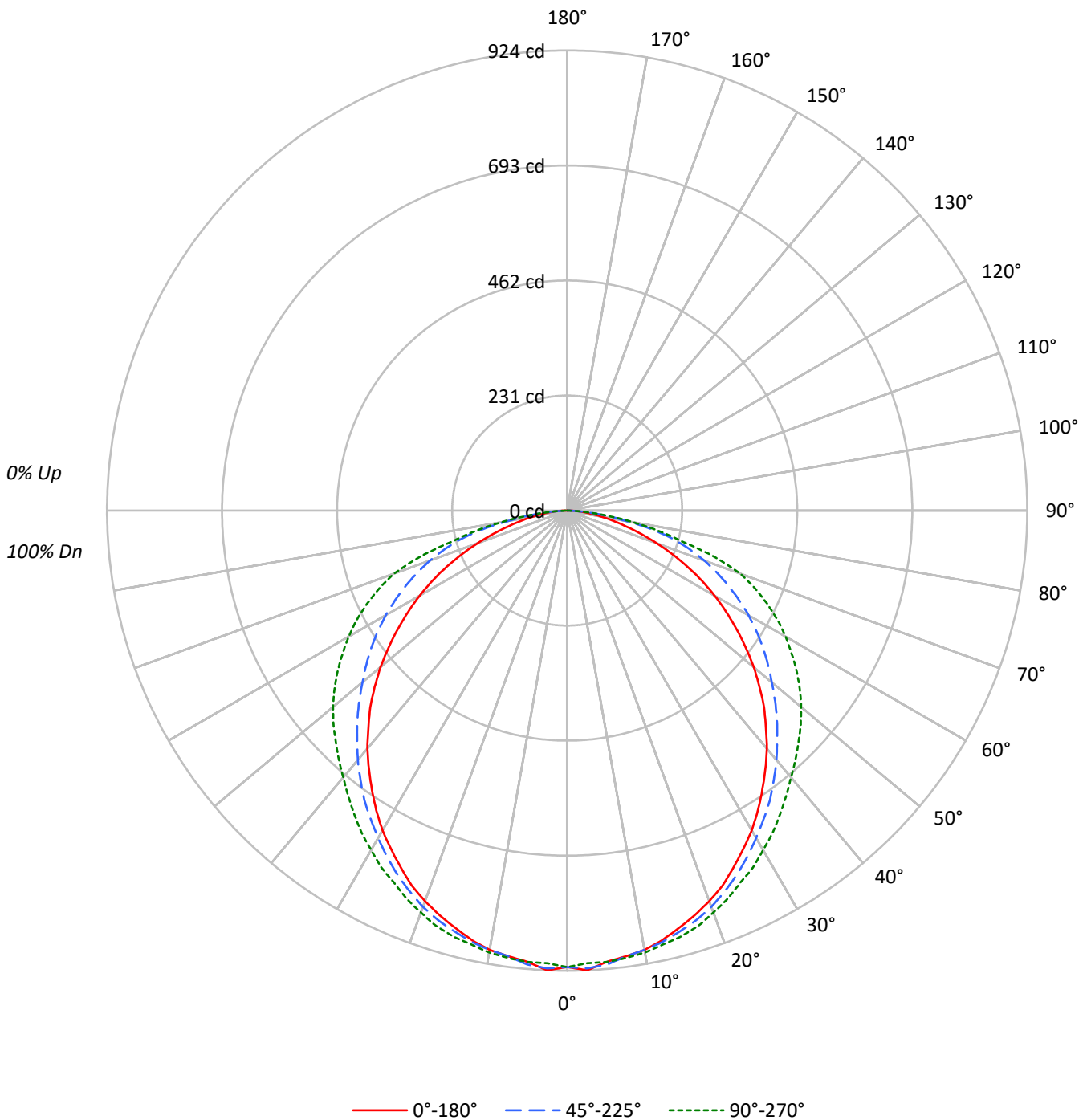
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260401

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P260401

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L83050-W2A1-U-4000K

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°	2467	2467	2467
5°	2457	2472	2457
10°	2447	2447	2462
15°	2417	2437	2466
20°	2389	2424	2460
25°	2347	2394	2446
30°	2304	2358	2445
35°	2246	2332	2447
40°	2192	2297	2457
45°	2128	2268	2501
50°	2047	2246	2568
55°	1949	2253	2640
60°	1840	2264	2726
65°	1696	2277	2824
70°	1504	2303	2910
75°	1276	2297	2479
80°	1060	1847	2064
85°	920	1244	1192



TEST NUMBER: P260401

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.3
10°-20°	247.1	9.3
20°-30°	371.7	14.0
30°-40°	445.4	16.8
40°-50°	464.5	17.5
50°-60°	432.5	16.3
60°-70°	351.2	13.2
70°-80°	211.6	8.0
80°-90°	48.5	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°	705.3	26.5
0°-40°	1150.8	43.3
0°-60°	2047.7	77.0
0°-90°	2659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	910	910	915	917	910	86
15°	868	871	875	880	885	245
25°	790	796	806	817	824	364
35°	684	692	710	731	745	428
45°	559	570	596	634	657	430
55°	415	433	480	533	563	371
65°	266	294	358	414	444	264
75°	123	163	221	235	238	133
85°	30	37	40	39	39	35
90°	0	0	0	0	0	



TEST NUMBER: P260401

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.7	916.7	916.7	916.7	916.7
2.5°	923.7	922.0	920.2	915.0	909.7
5°	909.7	909.7	915.0	916.7	909.7
7.5°	902.7	902.7	902.7	909.7	906.2
10°	895.7	895.7	895.7	900.9	900.9
12.5°	883.4	885.2	886.9	888.7	892.2
15°	867.6	871.2	874.7	879.9	885.2
17.5°	851.9	855.4	862.4	867.6	874.7
20°	834.3	837.8	846.6	851.9	858.9
22.5°	815.1	816.8	827.3	834.3	843.1
25°	790.5	795.8	806.3	816.8	823.8
27.5°	766.0	771.2	783.5	797.5	808.0
30°	741.4	746.7	759.0	776.5	787.0
32.5°	713.4	720.4	734.4	755.5	767.7
35°	683.6	692.4	709.9	730.9	744.9
37.5°	653.8	662.6	681.8	708.1	722.2
40°	624.0	632.8	653.8	681.8	699.4
42.5°	590.7	601.2	624.0	657.3	678.3
45°	559.1	569.7	596.0	634.5	657.3
47.5°	524.1	536.4	566.2	610.0	636.3
50°	489.0	503.1	536.4	585.4	613.5
52.5°	452.2	468.0	508.3	559.1	588.9
55°	415.4	432.9	480.3	532.9	562.7
57.5°	378.6	397.9	450.5	504.8	534.6
60°	341.8	362.8	420.7	476.8	506.6
62.5°	305.0	327.8	389.1	445.2	476.8
65°	266.4	294.5	357.6	413.7	443.5
67.5°	227.9	261.2	326.0	380.4	408.4
70°	191.1	227.9	292.7	343.6	369.8
72.5°	156.0	194.6	257.7	301.5	312.0
75°	122.7	163.0	220.9	234.9	238.4
77.5°	94.7	131.5	175.3	178.8	187.6
80°	68.4	99.9	119.2	129.7	133.2
82.5°	47.3	68.4	78.9	80.6	82.4
85°	29.8	36.8	40.3	38.6	38.6
87.5°	15.8	14.0	12.3	8.8	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)