

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: P260404

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260404
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-LD5-39-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2743.0 lumens
Efficiency: N/A
Efficacy: 91.3 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

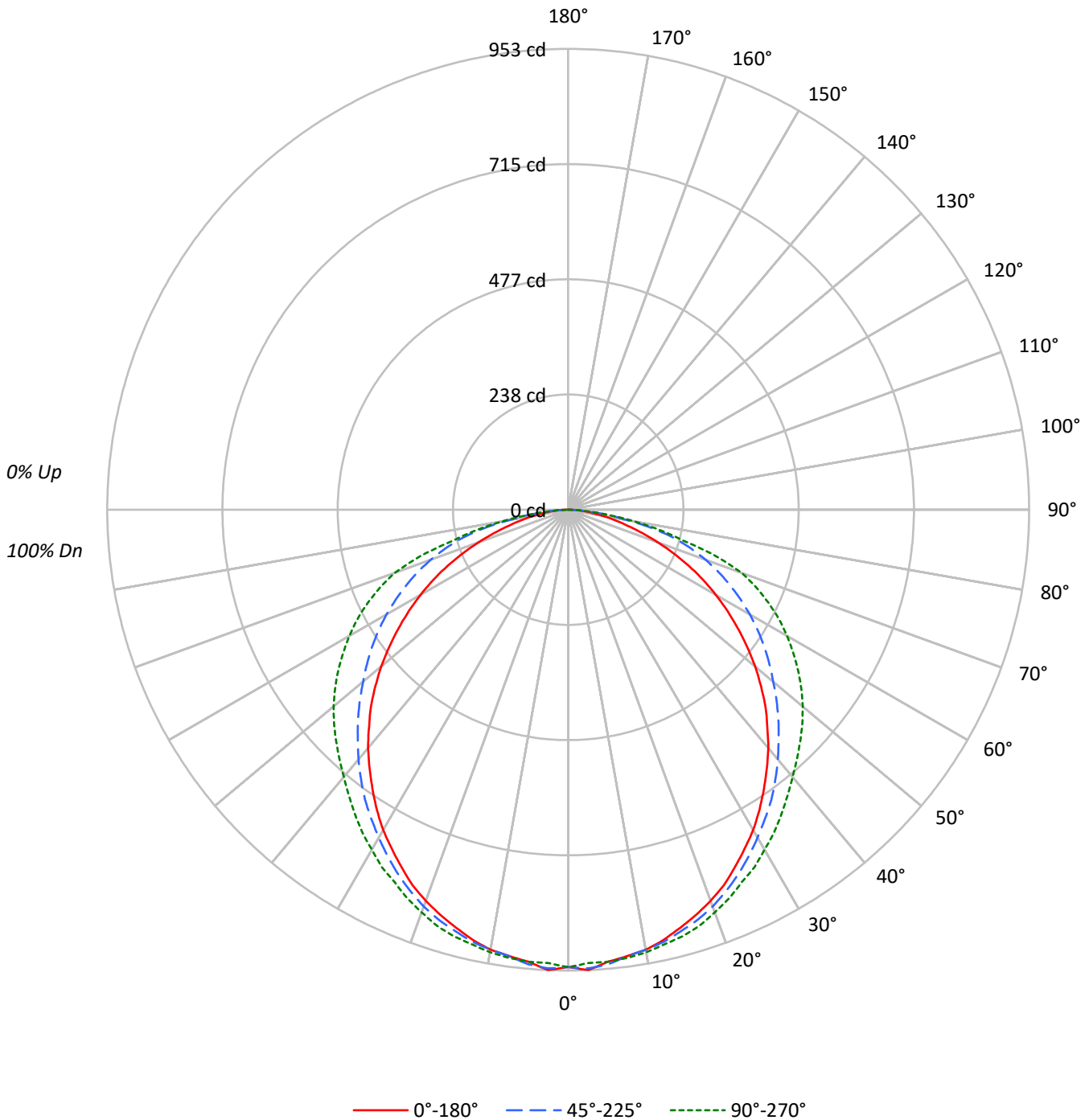
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260404

CATALOG NUMBER: 22CZ-LD5-39-RDP-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P260404

CATALOG NUMBER: 22CZ-LD5-39-RDP-UNV-L83050-W2A1-U-3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2545	2545	2545
5°	2535	2550	2535
10°	2525	2525	2540
15°	2494	2514	2544
20°	2465	2501	2537
25°	2421	2470	2523
30°	2377	2433	2523
35°	2317	2406	2525
40°	2261	2369	2535
45°	2195	2340	2581
50°	2112	2316	2650
55°	2010	2324	2723
60°	1898	2336	2813
65°	1750	2349	2913
70°	1551	2376	3002
75°	1316	2368	2557
80°	1093	1906	2129
85°	948	1284	1229



TEST NUMBER: P260404

CATALOG NUMBER: 22CZ-LD5-39-RDP-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	3.3
10°-20°	254.9	9.3
20°-30°	383.4	14.0
30°-40°	459.5	16.8
40°-50°	479.2	17.5
50°-60°	446.1	16.3
60°-70°	362.2	13.2
70°-80°	218.3	8.0
80°-90°	50.1	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°	727.6	26.5
0°-40°	1187.1	43.3
0°-60°	2112.4	77.0
0°-90°	2743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	938	938	944	946	938	89
15°	895	899	902	908	913	253
25°	816	821	832	843	850	376
35°	705	714	732	754	768	441
45°	577	588	615	655	678	444
55°	428	447	495	550	580	383
65°	275	304	369	427	458	272
75°	127	168	228	242	246	137
85°	31	38	42	40	40	36
90°	0	0	0	0	0	



TEST NUMBER: P260404

CATALOG NUMBER: 22CZ-LD5-39-RDP-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.7	945.7	945.7	945.7	945.7
2.5°	952.9	951.1	949.3	943.9	938.5
5°	938.5	938.5	943.9	945.7	938.5
7.5°	931.2	931.2	931.2	938.5	934.8
10°	924.0	924.0	924.0	929.4	929.4
12.5°	911.3	913.1	914.9	916.8	920.4
15°	895.1	898.7	902.3	907.7	913.1
17.5°	878.8	882.4	889.6	895.1	902.3
20°	860.7	864.3	873.4	878.8	886.0
22.5°	840.8	842.6	853.5	860.7	869.7
25°	815.5	820.9	831.8	842.6	849.8
27.5°	790.2	795.6	808.3	822.7	833.6
30°	764.9	770.3	782.9	801.0	811.9
32.5°	735.9	743.2	757.6	779.3	792.0
35°	705.2	714.2	732.3	754.0	768.5
37.5°	674.5	683.5	703.4	730.5	745.0
40°	643.7	652.8	674.5	703.4	721.5
42.5°	609.4	620.2	643.7	678.1	699.8
45°	576.8	587.7	614.8	654.6	678.1
47.5°	540.6	553.3	584.0	629.3	656.4
50°	504.5	519.0	553.3	603.9	632.9
52.5°	466.5	482.8	524.4	576.8	607.6
55°	428.5	446.6	495.4	549.7	580.4
57.5°	390.6	410.5	464.7	520.8	551.5
60°	352.6	374.3	434.0	491.8	522.6
62.5°	314.6	338.1	401.4	459.3	491.8
65°	274.8	303.8	368.9	426.7	457.5
67.5°	235.1	269.4	336.3	392.4	421.3
70°	197.1	235.1	302.0	354.4	381.5
72.5°	160.9	200.7	265.8	311.0	321.9
75°	126.6	168.2	227.8	242.3	245.9
77.5°	97.6	135.6	180.8	184.4	193.5
80°	70.5	103.1	123.0	133.8	137.4
82.5°	48.8	70.5	81.4	83.2	85.0
85°	30.7	38.0	41.6	39.8	39.8
87.5°	16.3	14.5	12.7	9.0	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)