

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: P260261

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-SQP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1673.0 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

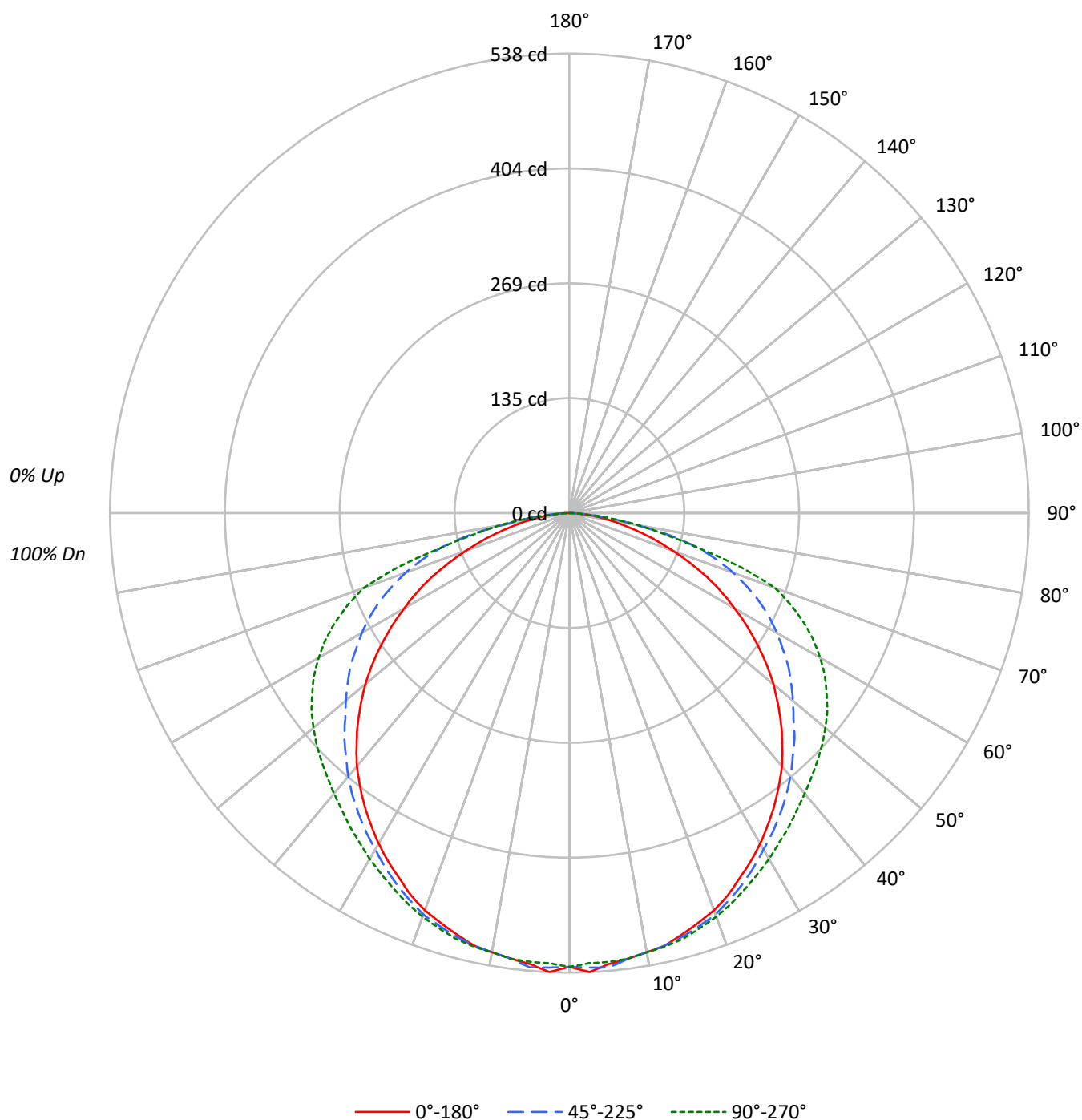
Input Watts (W): 26.258364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260261

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot



TEST NUMBER: P260261

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L93050-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								
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83								
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68								
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56								
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47								
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41								
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35								
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28								
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25								
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1430	1430	1430
5°	1432	1442	1425
10°	1427	1427	1427
15°	1422	1430	1437
20°	1418	1432	1440
25°	1400	1423	1443
30°	1389	1413	1453
35°	1374	1413	1472
40°	1360	1415	1506
45°	1335	1419	1563
50°	1305	1430	1637
55°	1262	1469	1725
60°	1203	1510	1825
65°	1133	1564	1927
70°	1012	1605	2014
75°	879	1607	1594
80°	745	1189	1289
85°	642	803	722



TEST NUMBER: P260261

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	3.0
10°-20°	144.9	8.7
20°-30°	220.8	13.2
30°-40°	270.2	16.1
40°-50°	290.7	17.4
50°-60°	281.6	16.8
60°-70°	238.5	14.3
70°-80°	144.2	8.6
80°-90°	31.7	1.9
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°	416.1	24.9
0°-40°	686.3	41.0
0°-60°	1258.6	75.2
0°-90°	1673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	530	530	534	531	528	50
15°	511	512	513	514	516	144
25°	472	474	479	483	486	218
35°	418	421	430	442	448	262
45°	351	357	373	396	411	270
55°	269	281	313	350	368	240
65°	178	198	246	284	303	175
75°	84	114	155	157	153	91
85°	21	25	26	25	23	24
90°	0	0	0	0	0	



TEST NUMBER: P260261

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	531.4	531.4	531.4	531.4	531.4
2.5°	537.9	536.6	532.7	530.1	527.5
5°	530.1	530.1	534.0	531.4	527.5
7.5°	526.2	526.2	526.2	532.7	526.2
10°	522.3	523.6	522.3	527.5	522.3
12.5°	518.4	518.4	518.4	519.7	519.7
15°	510.6	511.9	513.2	514.5	515.8
17.5°	502.8	504.1	506.7	508.0	509.3
20°	495.0	496.3	500.2	500.2	502.8
22.5°	484.6	484.6	489.8	491.1	495.0
25°	471.6	474.2	479.4	483.3	485.9
27.5°	459.9	462.5	467.7	472.9	476.8
30°	446.9	449.5	454.7	462.5	467.7
32.5°	432.6	435.2	443.0	452.1	457.3
35°	418.4	421.0	430.0	441.7	448.2
37.5°	402.8	406.7	417.1	430.0	437.8
40°	387.2	391.1	402.8	417.1	428.7
42.5°	369.0	374.2	387.2	406.7	419.7
45°	350.8	357.3	372.9	396.3	410.6
47.5°	331.3	337.8	356.0	385.9	401.5
50°	311.8	319.6	341.7	374.2	391.1
52.5°	291.0	298.8	327.4	362.5	380.7
55°	268.9	280.6	313.1	349.5	367.7
57.5°	246.9	259.8	296.2	335.2	354.7
60°	223.5	239.1	280.6	319.6	339.1
62.5°	201.4	218.3	263.7	302.7	322.2
65°	178.0	197.5	245.6	284.5	302.7
67.5°	153.3	178.0	224.8	262.4	280.6
70°	128.6	157.2	204.0	239.1	256.0
72.5°	106.5	136.4	180.6	210.5	210.5
75°	84.5	114.3	154.6	157.2	153.3
77.5°	65.0	93.5	120.8	110.4	113.0
80°	48.1	71.5	76.7	80.6	83.2
82.5°	32.5	48.1	49.4	52.0	52.0
85°	20.8	24.7	26.0	24.7	23.4
87.5°	9.1	10.4	7.8	5.2	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)