

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: P259189

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2164.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

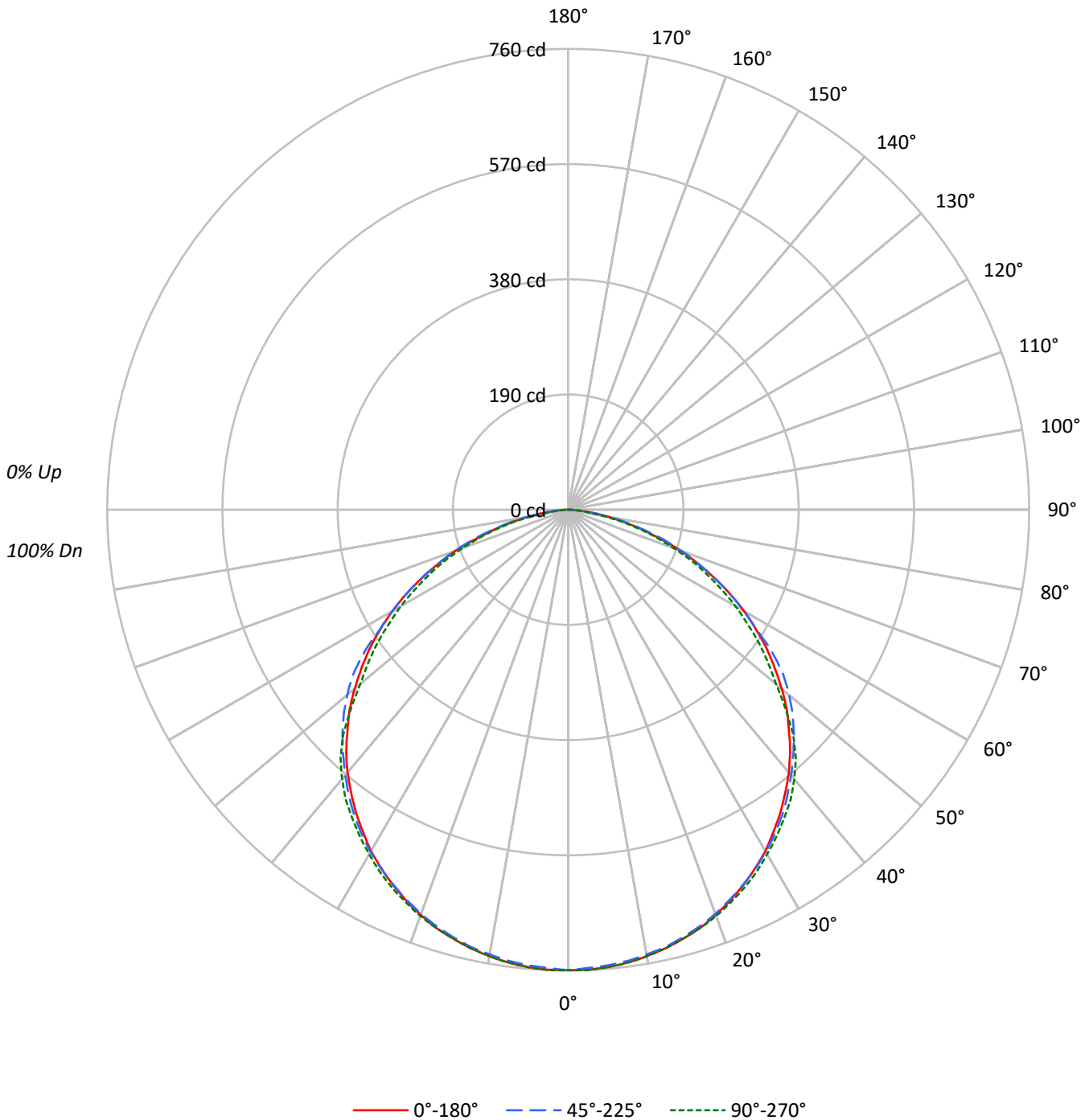
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259189

CATALOG NUMBER: 14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P259189

CATALOG NUMBER: 14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-6500K

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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2044	2044	2044
5°	2045	2038	2045
10°	2043	2035	2043
15°	2040	2034	2040
20°	2036	2032	2042
25°	2029	2026	2042
30°	2020	2025	2038
35°	2004	2020	2039
40°	1988	2008	2037
45°	1958	2003	1995
50°	1924	1991	1872
55°	1874	1929	1802
60°	1803	1799	1716
65°	1689	1699	1606
70°	1552	1569	1453
75°	1303	1364	1242
80°	1034	1057	874
85°	679	590	497



TEST NUMBER: P259189

CATALOG NUMBER: 14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	3.3
10°-20°	206.7	9.6
20°-30°	315.6	14.6
30°-40°	385.1	17.8
40°-50°	402.7	18.6
50°-60°	356.5	16.5
60°-70°	262.5	12.1
70°-80°	135.9	6.3
80°-90°	27.1	1.3
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°	594.2	27.5
0°-40°	979.3	45.3
0°-60°	1738.5	80.3
0°-90°	2164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	757	757	754	757	757	72
15°	732	732	730	733	732	207
25°	683	683	682	687	688	315
35°	610	611	615	621	621	381
45°	515	519	526	531	524	397
55°	400	408	411	390	384	356
65°	265	282	267	256	252	263
75°	125	134	131	123	120	134
85°	22	24	19	17	16	28
90°	0	0	0	0	0	



TEST NUMBER: P259189

CATALOG NUMBER: 14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	759.4	759.4	759.4	759.4	759.4
2.5°	759.4	759.4	756.5	759.4	760.1
5°	757.2	757.2	754.3	757.2	757.2
7.5°	753.5	752.8	750.6	753.5	753.5
10°	747.7	747.7	744.7	748.4	747.7
12.5°	741.1	740.3	738.9	741.8	741.1
15°	732.3	732.3	730.1	733.0	732.3
17.5°	723.5	722.7	720.5	723.5	723.5
20°	711.0	710.3	709.5	712.5	713.2
22.5°	697.8	697.1	696.3	700.7	700.7
25°	683.2	683.2	682.4	686.8	687.6
27.5°	667.0	667.0	667.8	673.6	672.9
30°	650.2	650.2	651.6	656.0	656.0
32.5°	629.6	631.1	634.0	639.2	639.2
35°	609.9	611.3	615.0	620.8	620.8
37.5°	587.9	590.1	593.7	601.1	602.5
40°	565.9	567.3	571.7	579.8	579.8
42.5°	541.7	543.2	549.0	557.1	555.6
45°	514.6	519.0	526.3	530.7	524.1
47.5°	488.9	491.8	502.1	497.0	486.0
50°	459.6	465.5	475.7	457.4	447.1
52.5°	429.5	436.1	447.1	421.5	415.6
55°	399.5	407.5	411.2	390.0	384.1
57.5°	367.2	376.0	368.7	356.2	350.4
60°	335.0	345.2	334.2	322.5	318.9
62.5°	301.3	313.0	300.5	290.3	285.1
65°	265.3	281.5	266.8	256.5	252.2
67.5°	230.2	247.0	231.6	222.8	219.9
70°	197.2	206.7	199.4	190.6	184.7
72.5°	157.6	167.1	165.7	156.1	152.5
75°	125.3	134.1	131.2	123.1	119.5
77.5°	93.1	102.6	99.7	90.2	88.7
80°	66.7	73.3	68.2	59.4	56.4
82.5°	41.8	46.9	40.3	33.7	32.3
85°	22.0	23.5	19.1	16.9	16.1
87.5°	7.3	8.1	8.1	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)