

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: P259186

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259186
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2108.0 lumens
Efficiency: N/A
Efficacy: 75.1 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

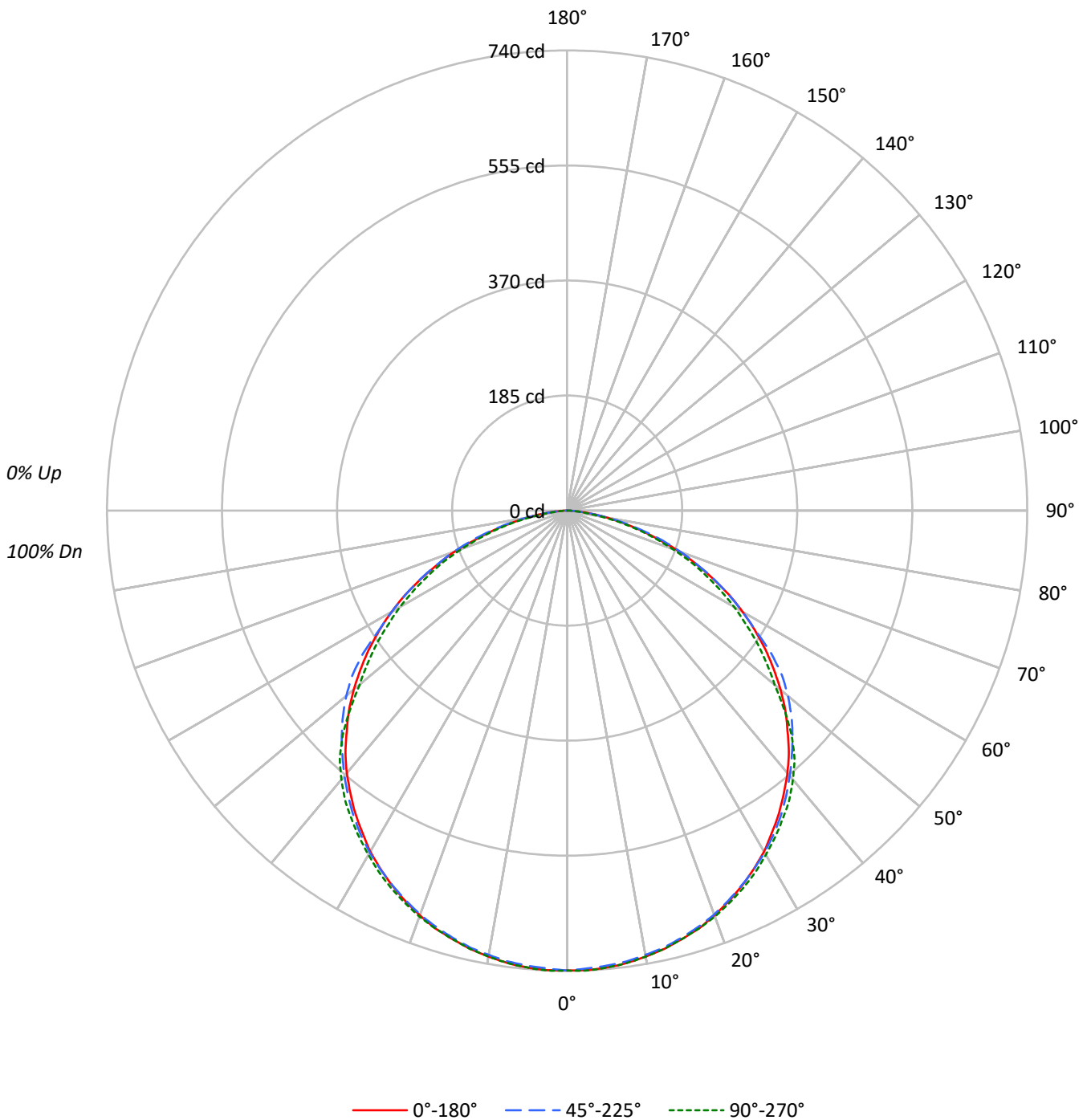
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	1991	1991	1991
5°	1992	1985	1992
10°	1990	1982	1990
15°	1987	1981	1987
20°	1983	1979	1990
25°	1976	1974	1989
30°	1968	1972	1986
35°	1952	1968	1987
40°	1936	1956	1984
45°	1907	1951	1943
50°	1874	1940	1824
55°	1825	1879	1756
60°	1756	1752	1672
65°	1646	1655	1564
70°	1511	1528	1415
75°	1269	1329	1210
80°	1007	1029	852
85°	661	574	485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.3
10°-20°	201.3	9.6
20°-30°	307.5	14.6
30°-40°	375.1	17.8
40°-50°	392.3	18.6
50°-60°	347.3	16.5
60°-70°	255.7	12.1
70°-80°	132.4	6.3
80°-90°	26.4	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°	578.9	27.5
0°-40°	954.0	45.3
0°-60°	1693.5	80.3
0°-90°	2108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	738	738	735	738	738	70
15°	713	713	711	714	713	201
25°	666	666	665	669	670	307
35°	594	596	599	605	605	372
45°	501	506	513	517	510	387
55°	389	397	401	380	374	347
65°	258	274	260	250	246	256
75°	122	131	128	120	116	130
85°	21	23	19	16	16	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.7	739.7	739.7	739.7	739.7
2.5°	739.7	739.7	736.9	739.7	740.4
5°	737.6	737.6	734.7	737.6	737.6
7.5°	734.0	733.3	731.2	734.0	734.0
10°	728.3	728.3	725.5	729.0	728.3
12.5°	721.9	721.2	719.7	722.6	721.9
15°	713.3	713.3	711.2	714.0	713.3
17.5°	704.7	704.0	701.9	704.7	704.7
20°	692.6	691.9	691.2	694.0	694.8
22.5°	679.8	679.0	678.3	682.6	682.6
25°	665.5	665.5	664.8	669.0	669.8
27.5°	649.8	649.8	650.5	656.2	655.5
30°	633.3	633.3	634.8	639.1	639.1
32.5°	613.4	614.8	617.6	622.6	622.6
35°	594.1	595.5	599.1	604.8	604.8
37.5°	572.7	574.8	578.4	585.5	586.9
40°	551.2	552.7	556.9	564.8	564.8
42.5°	527.7	529.1	534.8	542.7	541.2
45°	501.2	505.5	512.7	517.0	510.5
47.5°	476.3	479.1	489.1	484.1	473.4
50°	447.7	453.4	463.4	445.6	435.6
52.5°	418.4	424.8	435.6	410.6	404.9
55°	389.1	397.0	400.6	379.9	374.2
57.5°	357.7	366.3	359.2	347.0	341.3
60°	326.3	336.3	325.6	314.2	310.6
62.5°	293.5	304.9	292.8	282.8	277.8
65°	258.5	274.2	259.9	249.9	245.6
67.5°	224.2	240.6	225.6	217.1	214.2
70°	192.1	201.4	194.2	185.6	179.9
72.5°	153.5	162.8	161.4	152.1	148.5
75°	122.1	130.7	127.8	120.0	116.4
77.5°	90.7	100.0	97.1	87.8	86.4
80°	65.0	71.4	66.4	57.8	55.0
82.5°	40.7	45.7	39.3	32.8	31.4
85°	21.4	22.8	18.6	16.4	15.7
87.5°	7.1	7.9	7.9	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)