

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: P259148

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259148
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-LD5-44-SQP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2808.0 lumens
Efficiency: N/A
Efficacy: 78.0 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

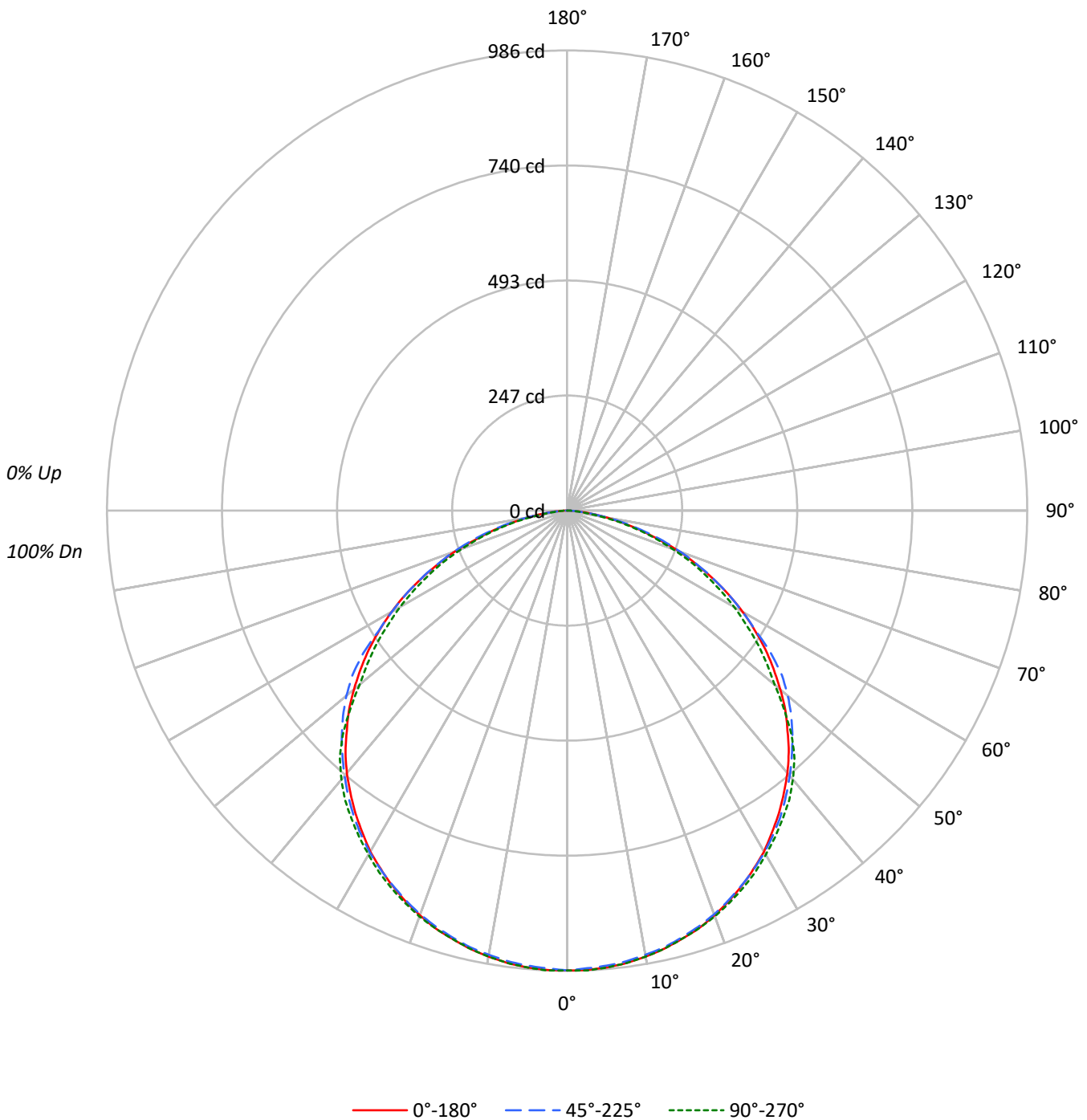
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2652	2652	2652
5°	2654	2644	2654
10°	2651	2641	2651
15°	2647	2639	2647
20°	2642	2637	2650
25°	2632	2629	2649
30°	2622	2628	2645
35°	2599	2621	2646
40°	2579	2606	2643
45°	2541	2599	2588
50°	2497	2584	2429
55°	2432	2503	2338
60°	2340	2334	2227
65°	2192	2204	2083
70°	2013	2035	1886
75°	1691	1771	1612
80°	1342	1371	1134
85°	880	763	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.3
10°-20°	268.2	9.6
20°-30°	409.5	14.6
30°-40°	499.7	17.8
40°-50°	522.5	18.6
50°-60°	462.6	16.5
60°-70°	340.6	12.1
70°-80°	176.4	6.3
80°-90°	35.1	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°	771.1	27.5
0°-40°	1270.7	45.3
0°-60°	2255.9	80.3
0°-90°	2808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	982	982	979	982	982	93
15°	950	950	947	951	950	268
25°	886	886	886	891	892	409
35°	791	793	798	806	806	495
45°	668	673	683	689	680	516
55°	518	529	534	506	498	462
65°	344	365	346	333	327	341
75°	163	174	170	160	155	174
85°	28	30	25	22	21	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	985.4	985.4	985.4	985.4	985.4
2.5°	985.4	985.4	981.6	985.4	986.3
5°	982.5	982.5	978.7	982.5	982.5
7.5°	977.8	976.8	974.0	977.8	977.8
10°	970.2	970.2	966.4	971.1	970.2
12.5°	961.6	960.6	958.7	962.5	961.6
15°	950.2	950.2	947.3	951.1	950.2
17.5°	938.8	937.8	935.0	938.8	938.8
20°	922.6	921.7	920.7	924.5	925.5
22.5°	905.5	904.5	903.6	909.3	909.3
25°	886.5	886.5	885.5	891.2	892.2
27.5°	865.5	865.5	866.5	874.1	873.1
30°	843.7	843.7	845.6	851.3	851.3
32.5°	817.0	818.9	822.7	829.4	829.4
35°	791.3	793.2	798.0	805.6	805.6
37.5°	762.8	765.7	770.4	779.9	781.8
40°	734.3	736.2	741.9	752.3	752.3
42.5°	702.9	704.8	712.4	722.9	721.0
45°	667.7	673.4	682.9	688.6	680.1
47.5°	634.4	638.2	651.5	644.9	630.6
50°	596.4	604.0	617.3	593.5	580.2
52.5°	557.4	565.9	580.2	546.9	539.3
55°	518.4	528.8	533.6	506.0	498.4
57.5°	476.5	487.9	478.4	462.3	454.6
60°	434.7	448.0	433.7	418.5	413.7
62.5°	390.9	406.1	390.0	376.6	370.0
65°	344.3	365.2	346.2	332.9	327.2
67.5°	298.7	320.5	300.6	289.1	285.3
70°	255.9	268.2	258.7	247.3	239.7
72.5°	204.5	216.9	215.0	202.6	197.8
75°	162.6	174.1	170.3	159.8	155.0
77.5°	120.8	133.2	129.4	117.0	115.1
80°	86.6	95.1	88.5	77.0	73.2
82.5°	54.2	60.9	52.3	43.8	41.8
85°	28.5	30.4	24.7	21.9	20.9
87.5°	9.5	10.5	10.5	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)