

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: P259055

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259055
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-L83050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2155.0 lumens
Efficiency: N/A
Efficacy: 78.8 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

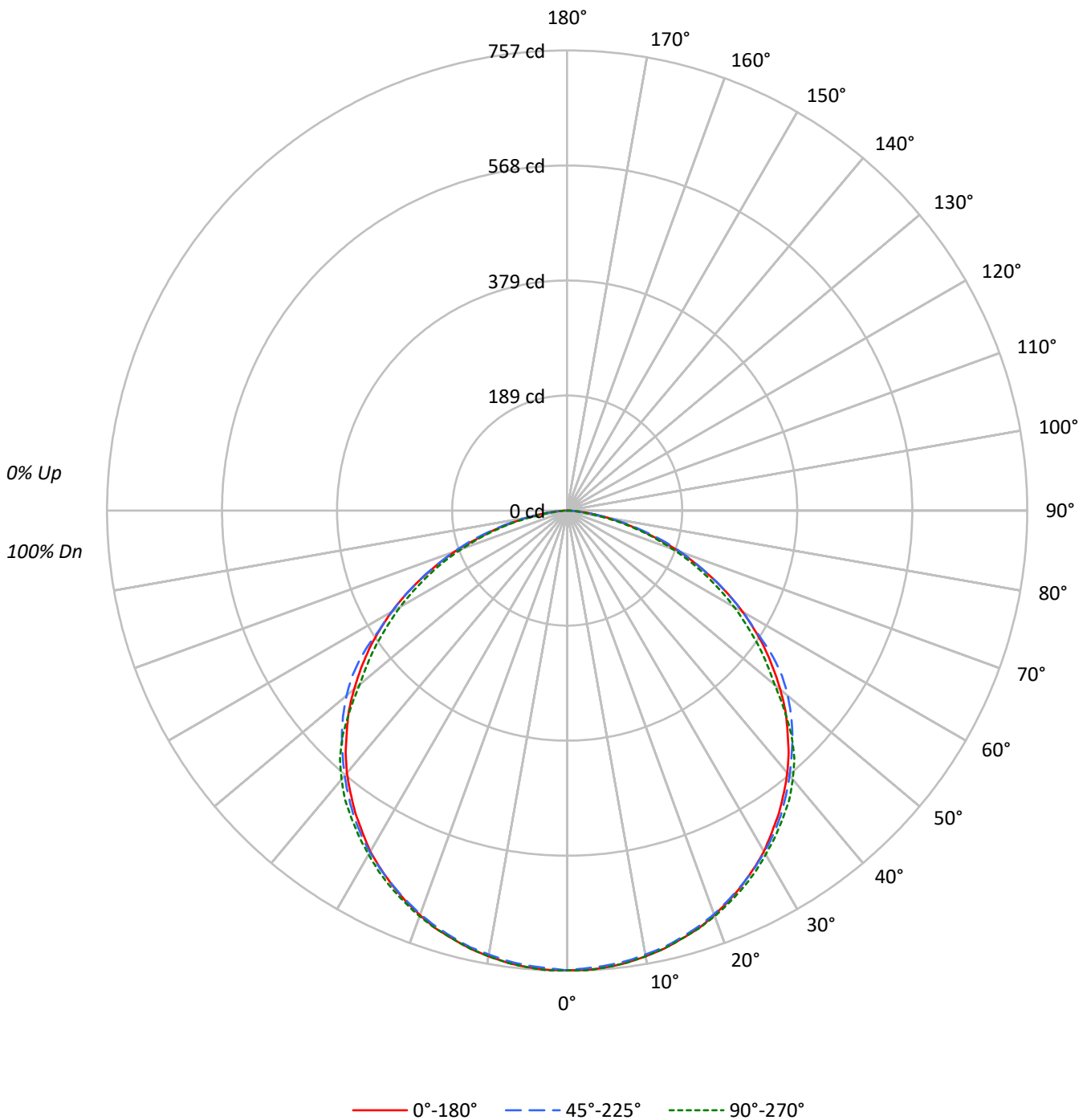
Input Watts (W): 27.342
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2035	2035	2035
5°	2037	2029	2037
10°	2034	2026	2034
15°	2031	2025	2031
20°	2028	2023	2034
25°	2020	2018	2033
30°	2012	2016	2030
35°	1995	2012	2031
40°	1979	2000	2028
45°	1950	1995	1986
50°	1916	1983	1864
55°	1866	1921	1795
60°	1795	1792	1709
65°	1682	1692	1599
70°	1545	1562	1447
75°	1298	1359	1237
80°	1029	1052	871
85°	676	587	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.3
10°-20°	205.8	9.6
20°-30°	314.3	14.6
30°-40°	383.5	17.8
40°-50°	401.0	18.6
50°-60°	355.0	16.5
60°-70°	261.4	12.1
70°-80°	135.3	6.3
80°-90°	27.0	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°	591.8	27.5
0°-40°	975.2	45.3
0°-60°	1731.3	80.3
0°-90°	2155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2155.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	754	754	751	754	754	72
15°	729	729	727	730	729	206
25°	680	680	680	684	685	314
35°	607	609	612	618	618	380
45°	512	517	524	528	522	396
55°	398	406	410	388	382	355
65°	264	280	266	256	251	262
75°	125	134	131	123	119	133
85°	22	23	19	17	16	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.2	756.2	756.2	756.2	756.2
2.5°	756.2	756.2	753.3	756.2	757.0
5°	754.0	754.0	751.1	754.0	754.0
7.5°	750.4	749.7	747.5	750.4	750.4
10°	744.5	744.5	741.6	745.3	744.5
12.5°	738.0	737.2	735.8	738.7	738.0
15°	729.2	729.2	727.0	729.9	729.2
17.5°	720.5	719.7	717.5	720.5	720.5
20°	708.1	707.3	706.6	709.5	710.2
22.5°	694.9	694.2	693.5	697.8	697.8
25°	680.3	680.3	679.6	684.0	684.7
27.5°	664.3	664.3	665.0	670.8	670.1
30°	647.5	647.5	648.9	653.3	653.3
32.5°	627.0	628.5	631.4	636.5	636.5
35°	607.3	608.8	612.4	618.3	618.3
37.5°	585.4	587.6	591.3	598.6	600.0
40°	563.5	565.0	569.4	577.4	577.4
42.5°	539.4	540.9	546.7	554.8	553.3
45°	512.4	516.8	524.1	528.5	521.9
47.5°	486.9	489.8	500.0	494.9	484.0
50°	457.7	463.5	473.7	455.5	445.3
52.5°	427.8	434.3	445.3	419.7	413.9
55°	397.8	405.9	409.5	388.3	382.5
57.5°	365.7	374.5	367.2	354.8	348.9
60°	333.6	343.8	332.9	321.2	317.5
62.5°	300.0	311.7	299.3	289.1	284.0
65°	264.2	280.3	265.7	255.5	251.1
67.5°	229.2	246.0	230.7	221.9	219.0
70°	196.4	205.8	198.5	189.8	183.9
72.5°	156.9	166.4	165.0	155.5	151.8
75°	124.8	133.6	130.7	122.6	119.0
77.5°	92.7	102.2	99.3	89.8	88.3
80°	66.4	73.0	67.9	59.1	56.2
82.5°	41.6	46.7	40.1	33.6	32.1
85°	21.9	23.4	19.0	16.8	16.1
87.5°	7.3	8.0	8.0	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)