

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: P259188

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259188
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2150.0 lumens
Efficiency: N/A
Efficacy: 76.0 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

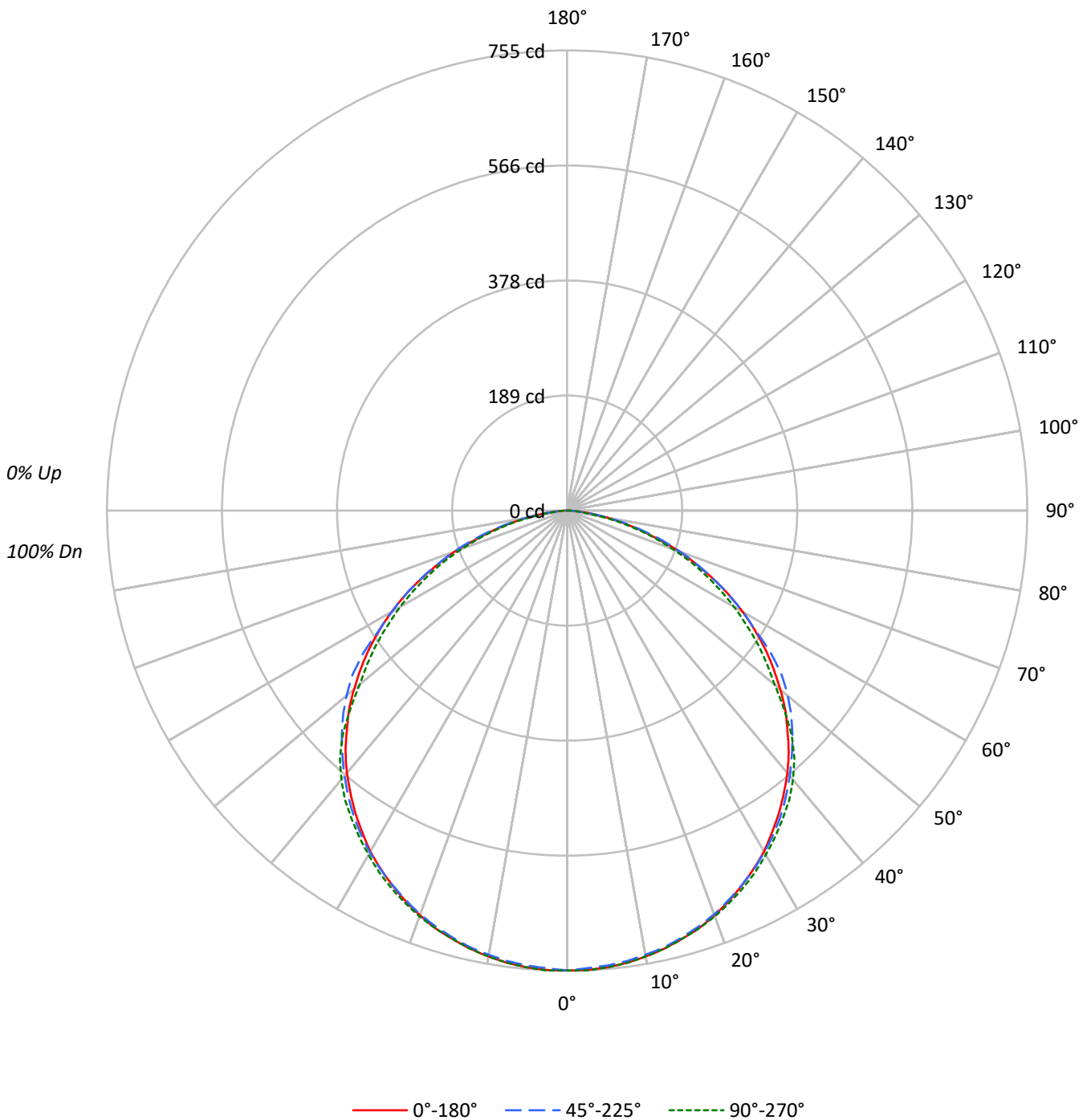
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2030	2030	2030
5°	2032	2024	2032
10°	2030	2022	2030
15°	2027	2021	2027
20°	2023	2019	2029
25°	2015	2013	2028
30°	2007	2012	2025
35°	1990	2007	2026
40°	1975	1995	2024
45°	1945	1990	1982
50°	1912	1979	1860
55°	1862	1917	1790
60°	1791	1787	1705
65°	1678	1688	1595
70°	1541	1559	1444
75°	1294	1356	1234
80°	1027	1049	869
85°	673	584	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	3.3
10°-20°	205.4	9.6
20°-30°	313.6	14.6
30°-40°	382.6	17.8
40°-50°	400.1	18.6
50°-60°	354.2	16.5
60°-70°	260.8	12.1
70°-80°	135.0	6.3
80°-90°	26.9	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°	590.4	27.5
0°-40°	973.0	45.3
0°-60°	1727.2	80.3
0°-90°	2150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	752	752	749	752	752	72
15°	728	728	725	728	728	206
25°	679	679	678	682	683	313
35°	606	607	611	617	617	379
45°	511	516	523	527	521	395
55°	397	405	409	387	382	354
65°	264	280	265	255	250	261
75°	124	133	130	122	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°	754.5	754.5	754.5	754.5	754.5
2.5°	754.5	754.5	751.6	754.5	755.2
5°	752.3	752.3	749.4	752.3	752.3
7.5°	748.6	747.9	745.7	748.6	748.6
10°	742.8	742.8	739.9	743.5	742.8
12.5°	736.3	735.5	734.1	737.0	736.3
15°	727.5	727.5	725.3	728.3	727.5
17.5°	718.8	718.1	715.9	718.8	718.8
20°	706.4	705.7	705.0	707.9	708.6
22.5°	693.3	692.6	691.8	696.2	696.2
25°	678.7	678.7	678.0	682.4	683.1
27.5°	662.7	662.7	663.4	669.3	668.5
30°	646.0	646.0	647.4	651.8	651.8
32.5°	625.6	627.0	629.9	635.0	635.0
35°	605.9	607.4	611.0	616.8	616.8
37.5°	584.1	586.2	589.9	597.2	598.6
40°	562.2	563.7	568.0	576.1	576.1
42.5°	538.2	539.6	545.5	553.5	552.0
45°	511.2	515.6	522.9	527.3	520.7
47.5°	485.7	488.7	498.9	493.8	482.8
50°	456.6	462.4	472.6	454.4	444.2
52.5°	426.8	433.3	444.2	418.7	412.9
55°	396.9	404.9	408.6	387.4	381.6
57.5°	364.9	373.6	366.3	353.9	348.1
60°	332.8	343.0	332.1	320.4	316.8
62.5°	299.3	311.0	298.6	288.4	283.3
65°	263.6	279.7	265.1	254.9	250.5
67.5°	228.7	245.4	230.1	221.4	218.5
70°	195.9	205.4	198.1	189.3	183.5
72.5°	156.6	166.0	164.6	155.1	151.5
75°	124.5	133.3	130.4	122.3	118.7
77.5°	92.5	102.0	99.0	89.6	88.1
80°	66.3	72.8	67.7	59.0	56.1
82.5°	41.5	46.6	40.1	33.5	32.0
85°	21.8	23.3	18.9	16.7	16.0
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)