

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: P259057

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259057
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-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: 2394.0 lumens
Efficiency: N/A
Efficacy: 85.2 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

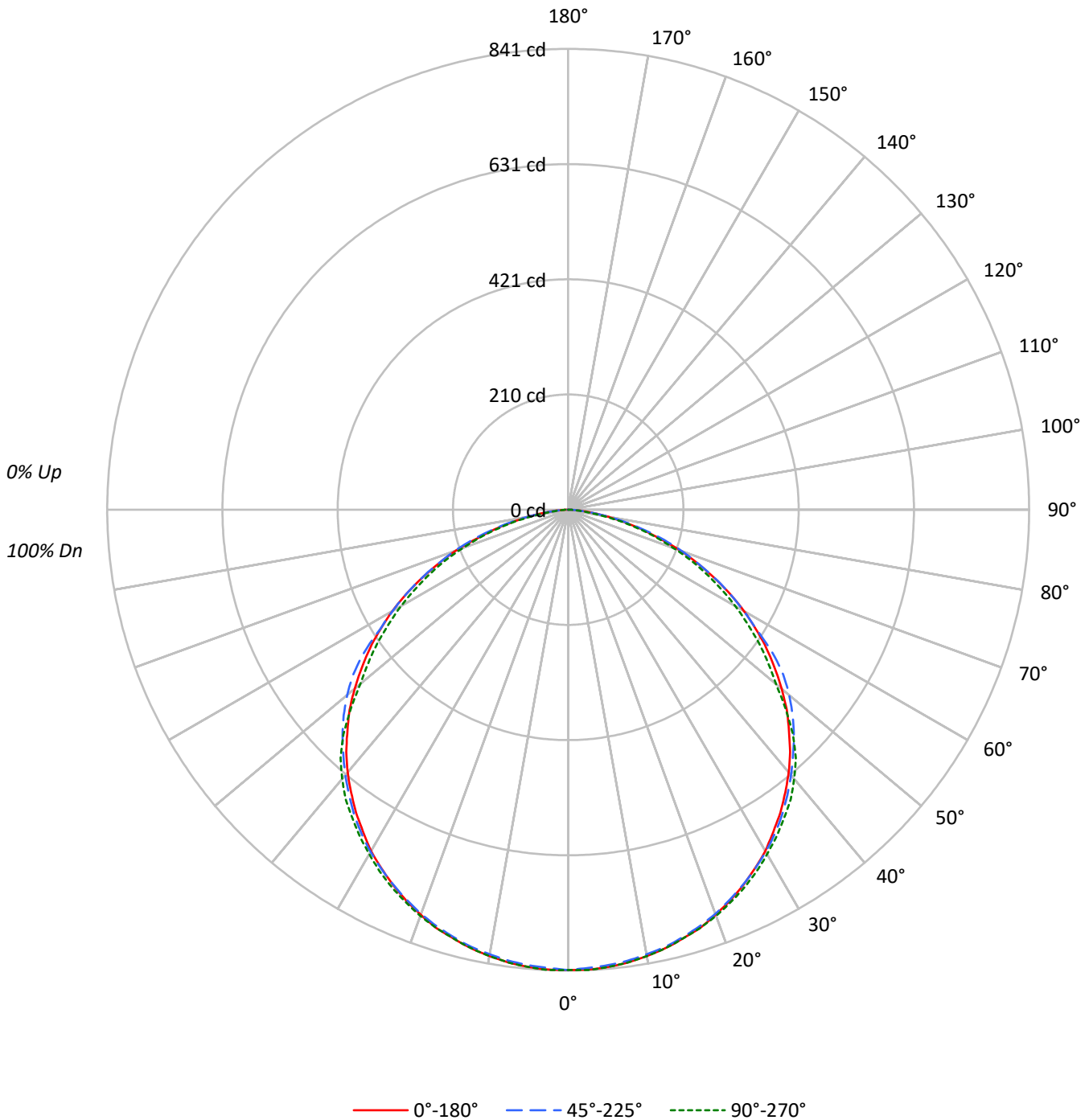
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2261	2261	2261
5°	2263	2254	2263
10°	2260	2251	2260
15°	2257	2250	2257
20°	2253	2248	2259
25°	2244	2242	2258
30°	2235	2240	2255
35°	2216	2235	2256
40°	2199	2222	2253
45°	2167	2216	2206
50°	2128	2203	2071
55°	2073	2134	1993
60°	1995	1990	1898
65°	1869	1880	1777
70°	1716	1736	1607
75°	1442	1510	1375
80°	1144	1168	967
85°	750	651	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	3.3
10°-20°	228.7	9.6
20°-30°	349.2	14.6
30°-40°	426.0	17.8
40°-50°	445.5	18.6
50°-60°	394.4	16.5
60°-70°	290.4	12.1
70°-80°	150.4	6.3
80°-90°	30.0	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°	657.4	27.5
0°-40°	1083.4	45.3
0°-60°	1923.3	80.3
0°-90°	2394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	838	838	834	838	838	80
15°	810	810	808	811	810	229
25°	756	756	755	760	761	348
35°	675	676	680	687	687	422
45°	569	574	582	587	580	440
55°	442	451	455	431	425	394
65°	294	311	295	284	279	291
75°	139	148	145	136	132	148
85°	24	26	21	19	18	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	840.1	840.1	840.1	840.1	840.1
2.5°	840.1	840.1	836.9	840.1	840.9
5°	837.7	837.7	834.4	837.7	837.7
7.5°	833.6	832.8	830.4	833.6	833.6
10°	827.1	827.1	823.9	827.9	827.1
12.5°	819.8	819.0	817.4	820.6	819.8
15°	810.1	810.1	807.7	810.9	810.1
17.5°	800.4	799.6	797.1	800.4	800.4
20°	786.6	785.8	785.0	788.2	789.0
22.5°	772.0	771.2	770.4	775.2	775.2
25°	755.8	755.8	755.0	759.8	760.6
27.5°	737.9	737.9	738.7	745.2	744.4
30°	719.3	719.3	720.9	725.8	725.8
32.5°	696.6	698.2	701.4	707.1	707.1
35°	674.7	676.3	680.3	686.8	686.8
37.5°	650.3	652.8	656.8	664.9	666.6
40°	626.0	627.6	632.5	641.4	641.4
42.5°	599.3	600.9	607.4	616.3	614.7
45°	569.3	574.1	582.2	587.1	579.8
47.5°	540.9	544.1	555.5	549.8	537.6
50°	508.4	514.9	526.3	506.0	494.7
52.5°	475.2	482.5	494.7	466.3	459.8
55°	441.9	450.9	454.9	431.4	424.9
57.5°	406.3	416.0	407.9	394.1	387.6
60°	370.6	381.9	369.8	356.8	352.7
62.5°	333.3	346.3	332.5	321.1	315.4
65°	293.5	311.4	295.2	283.8	279.0
67.5°	254.6	273.3	256.2	246.5	243.3
70°	218.1	228.7	220.6	210.8	204.3
72.5°	174.3	184.9	183.3	172.7	168.7
75°	138.7	148.4	145.2	136.2	132.2
77.5°	103.0	113.5	110.3	99.7	98.1
80°	73.8	81.1	75.4	65.7	62.4
82.5°	46.2	51.9	44.6	37.3	35.7
85°	24.3	25.9	21.1	18.7	17.8
87.5°	8.1	8.9	8.9	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)