

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: P259093

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259093
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-LD5-39-SQP-UNV-L93050-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2350.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

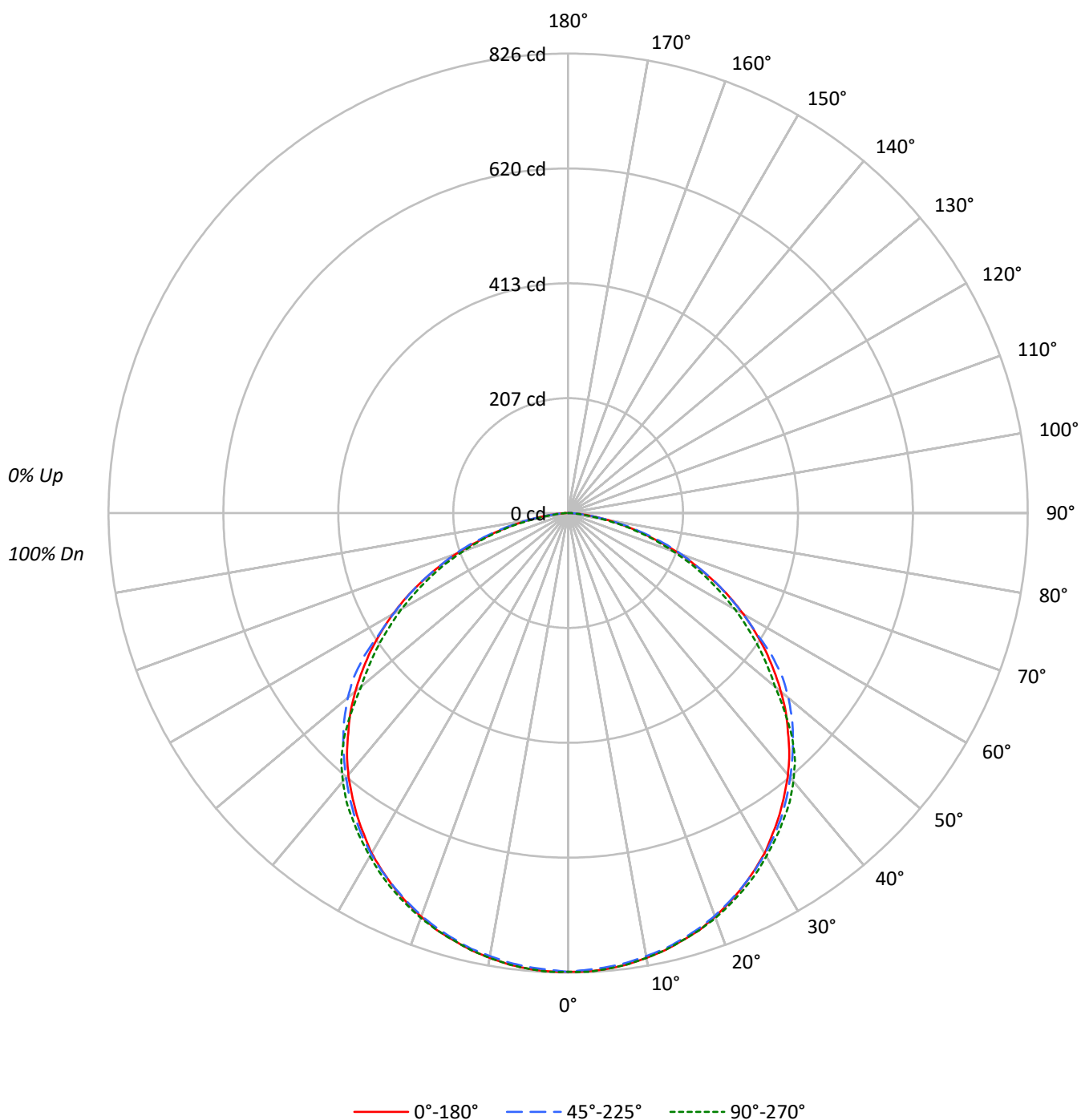
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	95		98	95	92		94	91	89		90	88	86
2	99	91	84	79	97	89	83	78		86	80	76		82	78	74		79	76	73
3	90	80	72	65	88	78	71	65		75	69	64		73	67	63		70	65	62
4	83	71	62	55	81	70	61	55		67	60	54		65	59	54		63	57	53
5	76	63	54	48	74	62	54	47		60	53	47		58	52	46		56	50	46
6	70	57	48	42	68	56	48	41		54	47	41		52	46	41		51	45	40
7	65	52	43	37	63	51	42	37		49	42	36		48	41	36		46	40	36
8	61	47	39	33	59	46	38	33		45	38	32		44	37	32		43	37	32
9	57	43	35	29	55	43	35	29		41	34	29		40	34	29		39	33	29
10	53	40	32	27	52	39	32	27		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2219	2219	2219
5°	2221	2213	2221
10°	2219	2210	2219
15°	2215	2209	2215
20°	2211	2206	2218
25°	2203	2200	2217
30°	2194	2199	2214
35°	2176	2194	2215
40°	2159	2181	2212
45°	2127	2175	2166
50°	2089	2163	2033
55°	2035	2095	1957
60°	1958	1954	1864
65°	1835	1845	1743
70°	1685	1703	1578
75°	1415	1482	1349
80°	1122	1147	950
85°	738	639	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.3
10°-20°	224.5	9.6
20°-30°	342.8	14.6
30°-40°	418.2	17.8
40°-50°	437.3	18.6
50°-60°	387.2	16.5
60°-70°	285.1	12.1
70°-80°	147.6	6.3
80°-90°	29.4	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°	645.3	27.5
0°-40°	1063.5	45.3
0°-60°	1887.9	80.3
0°-90°	2350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	822	822	819	822	822	78
15°	795	795	793	796	795	225
25°	742	742	741	746	747	342
35°	662	664	668	674	674	414
45°	559	564	572	576	569	431
55°	434	443	447	424	417	387
65°	288	306	290	279	274	285
75°	136	146	142	134	130	145
85°	24	26	21	18	18	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.7	824.7	824.7	824.7	824.7
2.5°	824.7	824.7	821.5	824.7	825.5
5°	822.3	822.3	819.1	822.3	822.3
7.5°	818.3	817.5	815.1	818.3	818.3
10°	811.9	811.9	808.7	812.7	811.9
12.5°	804.8	804.0	802.4	805.6	804.8
15°	795.2	795.2	792.8	796.0	795.2
17.5°	785.7	784.9	782.5	785.7	785.7
20°	772.1	771.3	770.5	773.7	774.5
22.5°	757.8	757.0	756.2	761.0	761.0
25°	741.9	741.9	741.1	745.9	746.6
27.5°	724.4	724.4	725.2	731.5	730.7
30°	706.1	706.1	707.6	712.4	712.4
32.5°	683.8	685.4	688.5	694.1	694.1
35°	662.3	663.9	667.8	674.2	674.2
37.5°	638.4	640.8	644.8	652.7	654.3
40°	614.5	616.1	620.9	629.6	629.6
42.5°	588.2	589.8	596.2	605.0	603.4
45°	558.8	563.6	571.5	576.3	569.1
47.5°	530.9	534.1	545.3	539.7	527.7
50°	499.1	505.5	516.6	496.7	485.6
52.5°	466.5	473.6	485.6	457.7	451.3
55°	433.8	442.6	446.6	423.5	417.1
57.5°	398.8	408.3	400.4	386.9	380.5
60°	363.8	374.9	363.0	350.2	346.3
62.5°	327.2	339.9	326.4	315.2	309.6
65°	288.2	305.7	289.7	278.6	273.8
67.5°	249.9	268.3	251.5	242.0	238.8
70°	214.1	224.5	216.5	207.0	200.6
72.5°	171.1	181.5	179.9	169.5	165.6
75°	136.1	145.7	142.5	133.7	129.7
77.5°	101.1	111.4	108.3	97.9	96.3
80°	72.4	79.6	74.0	64.5	61.3
82.5°	45.4	50.9	43.8	36.6	35.0
85°	23.9	25.5	20.7	18.3	17.5
87.5°	8.0	8.8	8.8	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)