

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: P258923

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2224.0 lumens
Efficiency: N/A
Efficacy: 70.5 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

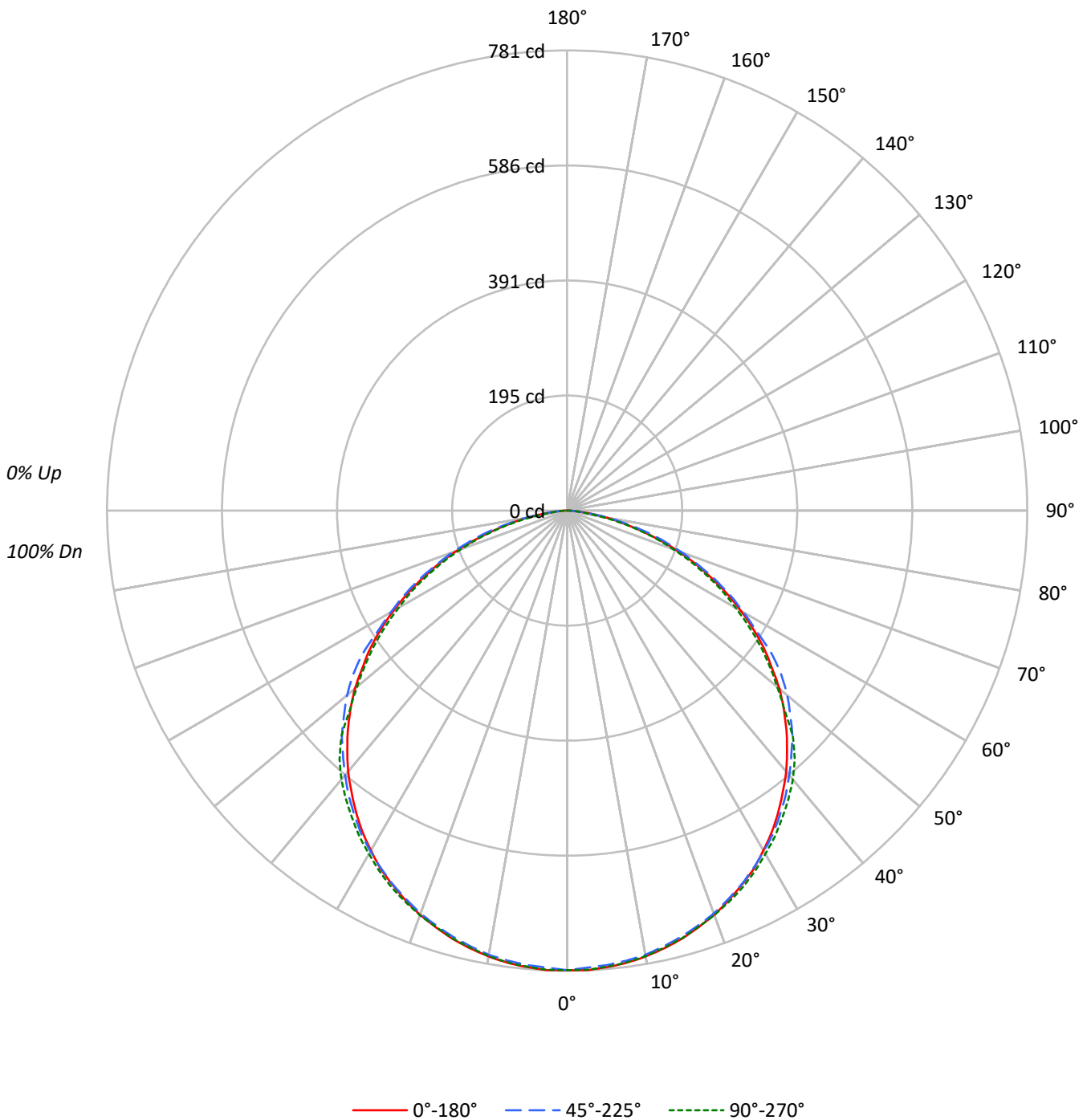
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47		58	51	46		56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41		52	46	41		51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32		44	37	32		43	36	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	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2099	2099	2099
5°	2101	2091	2099
10°	2100	2092	2097
15°	2096	2086	2094
20°	2090	2084	2092
25°	2081	2079	2094
30°	2070	2074	2090
35°	2053	2069	2091
40°	2032	2060	2093
45°	2003	2058	2061
50°	1969	2042	1948
55°	1915	1990	1877
60°	1834	1861	1779
65°	1717	1763	1671
70°	1563	1626	1511
75°	1304	1424	1281
80°	1034	1089	888
85°	670	580	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.3
10°-20°	212.1	9.5
20°-30°	323.7	14.6
30°-40°	394.7	17.7
40°-50°	413.3	18.6
50°-60°	367.7	16.5
60°-70°	271.3	12.2
70°-80°	140.2	6.3
80°-90°	27.2	1.2
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°	609.7	27.4
0°-40°	1004.4	45.2
0°-60°	1785.3	80.3
0°-90°	2224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	778	777	774	777	777	74
15°	752	752	749	752	752	212
25°	701	701	700	705	705	323
35°	625	626	630	637	636	391
45°	526	530	541	546	542	406
55°	408	417	424	406	400	364
65°	270	288	277	268	262	267
75°	125	138	137	126	123	136
85°	22	24	19	17	17	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.0	780.0	780.0	780.0	780.0
2.5°	780.7	780.0	776.3	780.0	780.0
5°	777.8	777.1	774.2	777.1	777.1
7.5°	774.2	773.4	770.5	773.4	773.4
10°	768.4	767.6	765.5	768.4	767.6
12.5°	761.1	761.1	757.5	761.1	759.7
15°	752.4	751.7	748.8	751.7	751.7
17.5°	741.5	740.8	738.6	742.3	740.8
20°	729.9	729.2	727.8	731.4	730.7
22.5°	716.2	716.2	714.0	718.4	718.4
25°	701.0	701.0	700.2	705.3	705.3
27.5°	685.7	684.3	684.3	689.4	690.1
30°	666.2	666.2	667.6	673.4	672.7
32.5°	646.6	647.3	650.2	655.3	656.0
35°	624.8	625.6	629.9	637.2	636.4
37.5°	601.6	603.8	608.9	616.9	616.9
40°	578.5	579.9	586.4	595.1	595.8
42.5°	552.4	556.0	563.2	573.4	571.9
45°	526.3	529.9	540.8	545.8	541.5
47.5°	498.7	503.1	513.9	514.7	500.2
50°	470.4	475.5	487.8	473.3	465.4
52.5°	437.8	447.2	458.1	437.8	432.8
55°	408.1	416.8	424.1	405.9	400.1
57.5°	374.8	386.4	381.3	372.6	365.3
60°	340.7	353.0	345.8	337.1	330.5
62.5°	305.9	319.7	312.4	303.7	297.9
65°	269.7	288.5	276.9	267.5	262.4
67.5°	235.6	253.7	239.9	232.7	227.6
70°	198.6	213.8	206.6	197.2	192.1
72.5°	162.4	174.0	171.8	161.6	158.0
75°	125.4	138.5	137.0	126.1	123.2
77.5°	94.2	106.6	102.2	93.5	89.9
80°	66.7	74.7	70.3	60.2	57.3
82.5°	40.6	47.1	39.9	34.1	31.2
85°	21.7	23.9	18.8	17.4	16.7
87.5°	8.0	8.0	8.0	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)