

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: P258927

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258927
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-LD5-44-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2275.0 lumens
Efficiency: N/A
Efficacy: 62.4 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

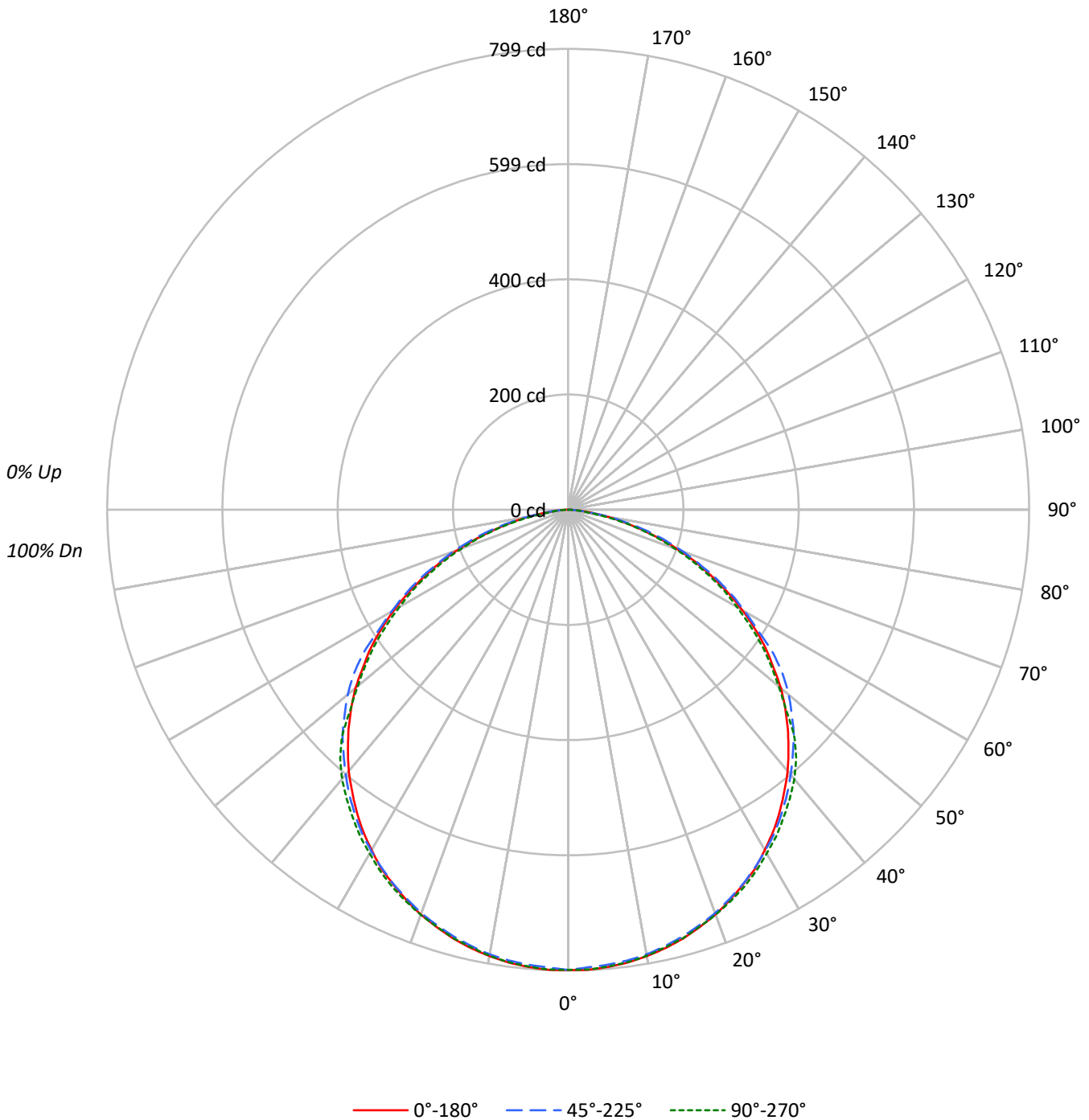
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2147	2147	2147
5°	2149	2139	2147
10°	2148	2140	2146
15°	2144	2134	2142
20°	2138	2132	2140
25°	2129	2127	2142
30°	2117	2122	2138
35°	2100	2117	2139
40°	2079	2107	2141
45°	2049	2105	2108
50°	2015	2089	1993
55°	1959	2035	1920
60°	1876	1904	1820
65°	1756	1804	1709
70°	1599	1662	1546
75°	1334	1457	1311
80°	1057	1114	908
85°	685	596	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	3.3
10°-20°	216.9	9.5
20°-30°	331.2	14.6
30°-40°	403.8	17.7
40°-50°	422.8	18.6
50°-60°	376.1	16.5
60°-70°	277.5	12.2
70°-80°	143.4	6.3
80°-90°	27.9	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°	623.6	27.4
0°-40°	1027.4	45.2
0°-60°	1826.3	80.3
0°-90°	2275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	796	795	792	795	795	76
15°	770	769	766	769	769	217
25°	717	717	716	722	722	331
35°	639	640	644	652	651	400
45°	538	542	553	558	554	415
55°	418	426	434	415	409	372
65°	276	295	283	274	268	273
75°	128	142	140	129	126	139
85°	22	24	19	18	17	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	797.9	797.9	797.9	797.9	797.9
2.5°	798.6	797.9	794.1	797.9	797.9
5°	795.6	794.9	791.9	794.9	794.9
7.5°	791.9	791.2	788.2	791.2	791.2
10°	786.0	785.2	783.0	786.0	785.2
12.5°	778.6	778.6	774.9	778.6	777.1
15°	769.7	768.9	766.0	768.9	768.9
17.5°	758.6	757.8	755.6	759.3	757.8
20°	746.7	745.9	744.5	748.2	747.4
22.5°	732.6	732.6	730.4	734.8	734.8
25°	717.0	717.0	716.3	721.5	721.5
27.5°	701.5	700.0	700.0	705.2	705.9
30°	681.4	681.4	682.9	688.9	688.1
32.5°	661.4	662.2	665.1	670.3	671.1
35°	639.2	639.9	644.4	651.8	651.0
37.5°	615.4	617.7	622.9	631.0	631.0
40°	591.7	593.2	599.9	608.8	609.5
42.5°	565.0	568.7	576.1	586.5	585.0
45°	538.3	542.0	553.2	558.3	553.9
47.5°	510.2	514.6	525.7	526.5	511.6
50°	481.2	486.4	499.0	484.2	476.0
52.5°	447.9	457.5	468.6	447.9	442.7
55°	417.5	426.4	433.8	415.2	409.3
57.5°	383.4	395.2	390.0	381.1	373.7
60°	348.5	361.1	353.7	344.8	338.1
62.5°	312.9	327.0	319.6	310.7	304.8
65°	275.8	295.1	283.3	273.6	268.4
67.5°	241.0	259.5	245.4	238.0	232.8
70°	203.2	218.7	211.3	201.7	196.5
72.5°	166.1	178.0	175.7	165.4	161.6
75°	128.3	141.6	140.1	129.0	126.1
77.5°	96.4	109.0	104.6	95.7	91.9
80°	68.2	76.4	71.9	61.5	58.6
82.5°	41.5	48.2	40.8	34.9	31.9
85°	22.2	24.5	19.3	17.8	17.1
87.5°	8.2	8.2	8.2	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)