

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: P259019

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259019
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-LD5-35-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2225.0 lumens
Efficiency: N/A
Efficacy: 79.0 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

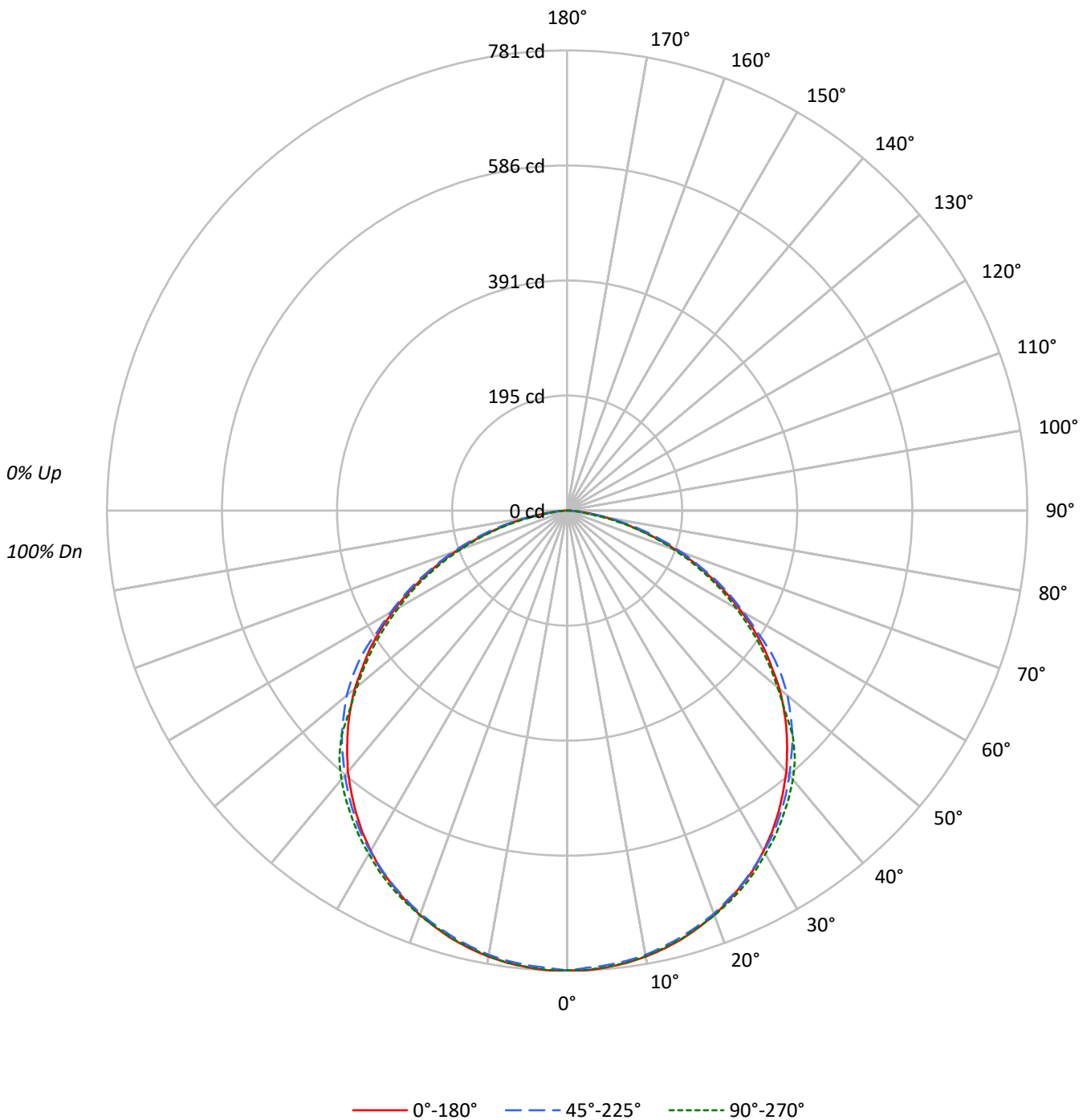
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20				20			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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	84	
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70	70	
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59	59	
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51	51	
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44	44	
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38	38	
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	34	
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30	30	
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27	27	
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24	24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2100	2100	2100
5°	2102	2092	2100
10°	2100	2093	2099
15°	2097	2087	2095
20°	2091	2085	2093
25°	2082	2080	2095
30°	2071	2075	2091
35°	2054	2070	2092
40°	2033	2061	2094
45°	2004	2059	2062
50°	1971	2043	1949
55°	1916	1990	1878
60°	1834	1862	1780
65°	1718	1764	1671
70°	1563	1626	1512
75°	1305	1425	1282
80°	1034	1089	888
85°	673	584	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	3.3
10°-20°	212.2	9.5
20°-30°	323.9	14.6
30°-40°	394.9	17.7
40°-50°	413.5	18.6
50°-60°	367.8	16.5
60°-70°	271.4	12.2
70°-80°	140.2	6.3
80°-90°	27.3	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°	609.9	27.4
0°-40°	1004.8	45.2
0°-60°	1786.1	80.3
0°-90°	2225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.0	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°	753	752	749	752	752	212
25°	701	701	700	706	706	323
35°	625	626	630	638	637	391
45°	526	530	541	546	542	406
55°	408	417	424	406	400	364
65°	270	289	277	268	262	267
75°	126	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°	780.3	780.3	780.3	780.3	780.3
2.5°	781.0	780.3	776.7	780.3	780.3
5°	778.1	777.4	774.5	777.4	777.4
7.5°	774.5	773.8	770.9	773.8	773.8
10°	768.7	768.0	765.8	768.7	768.0
12.5°	761.5	761.5	757.8	761.5	760.0
15°	752.8	752.0	749.1	752.0	752.0
17.5°	741.9	741.2	739.0	742.6	741.2
20°	730.3	729.6	728.1	731.7	731.0
22.5°	716.5	716.5	714.3	718.7	718.7
25°	701.3	701.3	700.5	705.6	705.6
27.5°	686.0	684.6	684.6	689.7	690.4
30°	666.5	666.5	667.9	673.7	673.0
32.5°	646.9	647.6	650.5	655.6	656.3
35°	625.1	625.8	630.2	637.5	636.7
37.5°	601.9	604.1	609.2	617.1	617.1
40°	578.7	580.2	586.7	595.4	596.1
42.5°	552.6	556.2	563.5	573.6	572.2
45°	526.5	530.1	541.0	546.1	541.7
47.5°	498.9	503.3	514.2	514.9	500.4
50°	470.7	475.7	488.1	473.6	465.6
52.5°	438.0	447.4	458.3	438.0	432.9
55°	408.3	417.0	424.2	406.1	400.3
57.5°	374.9	386.5	381.5	372.8	365.5
60°	340.8	353.2	345.9	337.2	330.7
62.5°	306.0	319.8	312.6	303.9	298.1
65°	269.8	288.6	277.0	267.6	262.5
67.5°	235.7	253.8	240.0	232.8	227.7
70°	198.7	213.9	206.7	197.3	192.2
72.5°	162.4	174.0	171.9	161.7	158.1
75°	125.5	138.5	137.1	126.2	123.3
77.5°	94.3	106.6	102.3	93.6	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°	21.8	23.9	18.9	17.4	16.7
87.5°	8.0	8.0	8.0	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)