

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: P258961

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258961
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-L82765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2316.0 lumens
Efficiency: N/A
Efficacy: 84.1 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

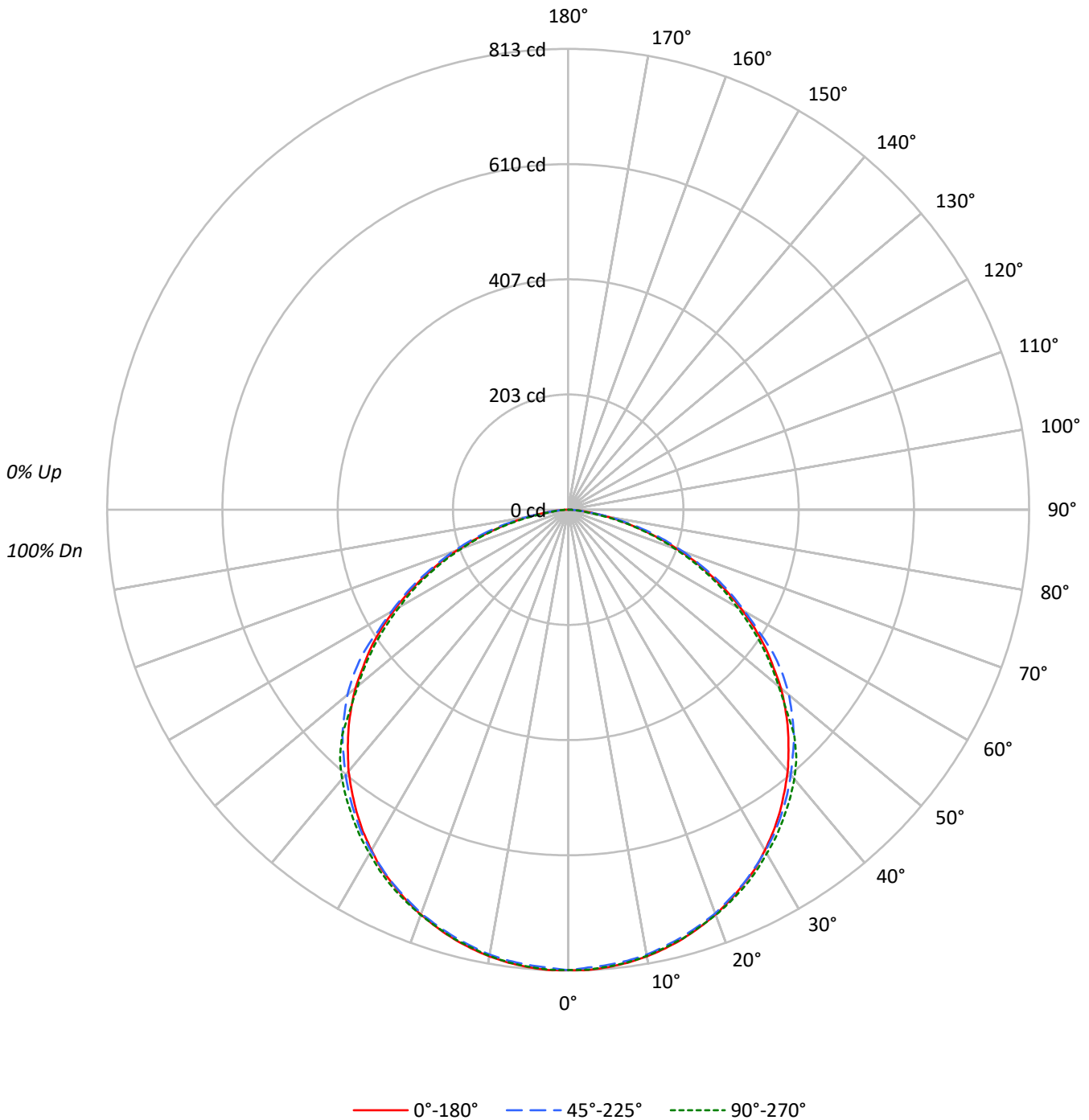
Input Watts (W): 27.528
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258961

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P258961

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-3500K

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°	2186	2186	2186
5°	2188	2178	2186
10°	2187	2178	2184
15°	2183	2172	2181
20°	2177	2170	2179
25°	2167	2165	2181
30°	2156	2160	2177
35°	2138	2155	2177
40°	2116	2145	2180
45°	2085	2143	2146
50°	2051	2127	2029
55°	1994	2072	1955
60°	1910	1938	1852
65°	1788	1836	1740
70°	1627	1692	1574
75°	1358	1484	1334
80°	1075	1134	924
85°	698	605	537



TEST NUMBER: P258961

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	3.3
10°-20°	220.9	9.5
20°-30°	337.1	14.6
30°-40°	411.0	17.7
40°-50°	430.4	18.6
50°-60°	382.9	16.5
60°-70°	282.5	12.2
70°-80°	146.0	6.3
80°-90°	28.4	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°	634.9	27.4
0°-40°	1045.9	45.2
0°-60°	1859.2	80.3
0°-90°	2316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	810	809	806	809	809	77
15°	784	783	780	783	783	221
25°	730	730	729	734	734	337
35°	651	651	656	664	663	407
45°	548	552	563	568	564	423
55°	425	434	442	423	417	379
65°	281	300	288	278	273	278
75°	131	144	143	131	128	141
85°	23	25	20	18	17	29
90°	0	0	0	0	0	



TEST NUMBER: P258961

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.2	812.2	812.2	812.2	812.2
2.5°	813.0	812.2	808.5	812.2	812.2
5°	810.0	809.2	806.2	809.2	809.2
7.5°	806.2	805.4	802.4	805.4	805.4
10°	800.2	799.4	797.1	800.2	799.4
12.5°	792.6	792.6	788.8	792.6	791.1
15°	783.5	782.8	779.8	782.8	782.8
17.5°	772.2	771.5	769.2	773.0	771.5
20°	760.1	759.4	757.9	761.7	760.9
22.5°	745.8	745.8	743.5	748.1	748.1
25°	730.0	730.0	729.2	734.5	734.5
27.5°	714.1	712.6	712.6	717.9	718.6
30°	693.7	693.7	695.2	701.3	700.5
32.5°	673.3	674.1	677.1	682.4	683.1
35°	650.7	651.4	656.0	663.5	662.8
37.5°	626.5	628.8	634.1	642.4	642.4
40°	602.4	603.9	610.7	619.7	620.5
42.5°	575.2	579.0	586.5	597.1	595.6
45°	548.0	551.8	563.1	568.4	563.9
47.5°	519.3	523.9	535.2	536.0	520.9
50°	489.9	495.2	508.0	492.9	484.6
52.5°	455.9	465.7	477.1	455.9	450.7
55°	425.0	434.0	441.6	422.7	416.7
57.5°	390.3	402.3	397.1	388.0	380.4
60°	354.8	367.6	360.1	351.0	344.2
62.5°	318.6	332.9	325.3	316.3	310.2
65°	280.8	300.4	288.4	278.5	273.3
67.5°	245.3	264.2	249.9	242.3	237.0
70°	206.8	222.7	215.1	205.3	200.0
72.5°	169.1	181.2	178.9	168.3	164.6
75°	130.6	144.2	142.7	131.3	128.3
77.5°	98.1	111.0	106.4	97.4	93.6
80°	69.4	77.8	73.2	62.7	59.6
82.5°	42.3	49.1	41.5	35.5	32.5
85°	22.6	24.9	19.6	18.1	17.4
87.5°	8.3	8.3	8.3	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)