

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: P259020

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259020
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2235.0 lumens
Efficiency: N/A
Efficacy: 79.1 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

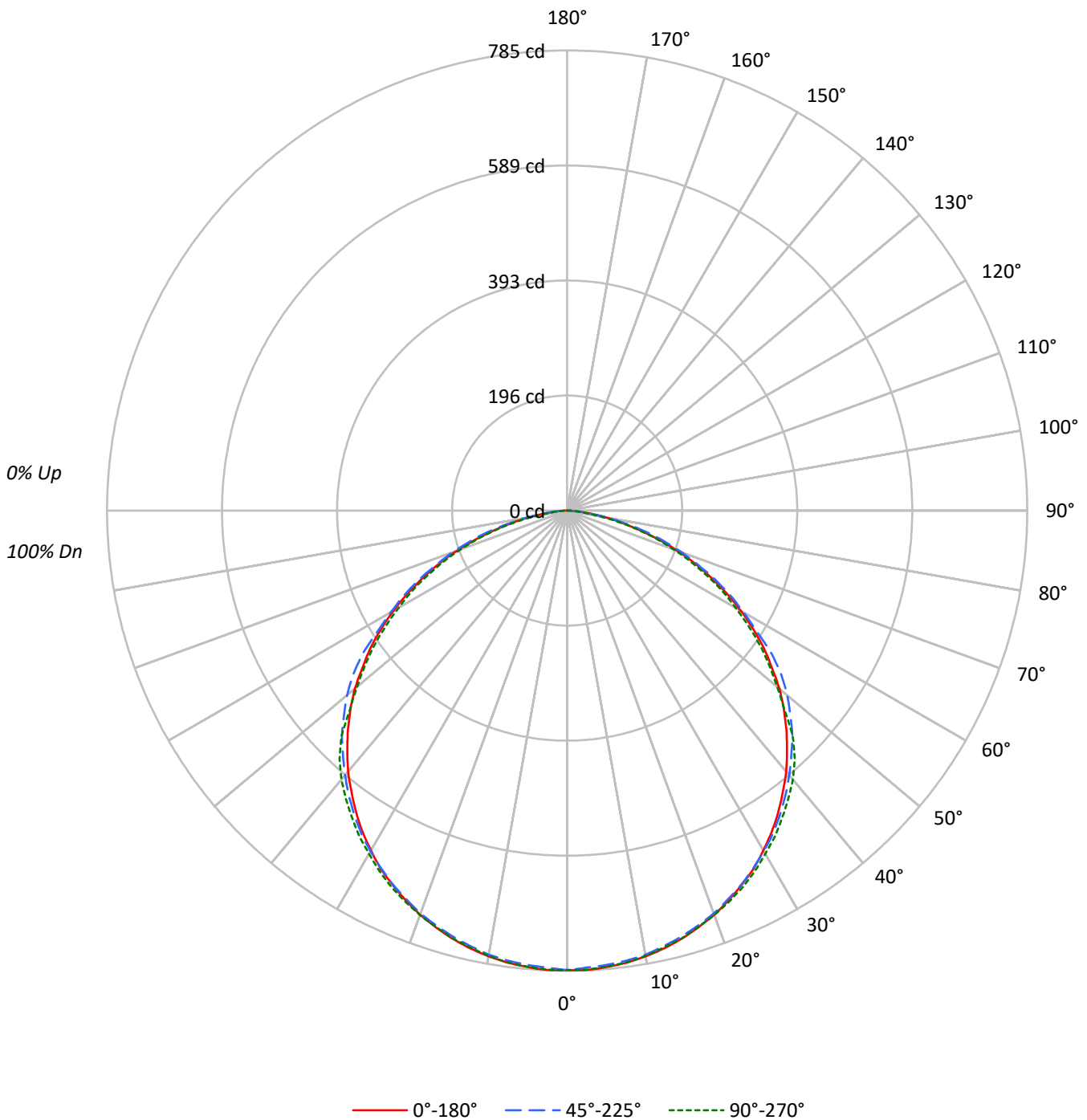
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259020

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P259020

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-5700K

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°	2109	2109	2109
5°	2111	2102	2109
10°	2110	2102	2108
15°	2106	2096	2104
20°	2101	2094	2103
25°	2091	2089	2105
30°	2080	2085	2101
35°	2063	2079	2101
40°	2042	2070	2103
45°	2013	2068	2071
50°	1979	2053	1958
55°	1924	1999	1886
60°	1843	1870	1788
65°	1726	1772	1679
70°	1570	1633	1519
75°	1310	1432	1287
80°	1038	1096	891
85°	676	584	519



TEST NUMBER: P259020

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	3.3
10°-20°	213.1	9.5
20°-30°	325.3	14.6
30°-40°	396.7	17.7
40°-50°	415.3	18.6
50°-60°	369.5	16.5
60°-70°	272.6	12.2
70°-80°	140.9	6.3
80°-90°	27.4	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°	612.7	27.4
0°-40°	1009.3	45.2
0°-60°	1794.2	80.3
0°-90°	2235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	782	781	778	781	781	74
15°	756	755	752	755	755	213
25°	704	704	704	709	709	325
35°	628	629	633	640	640	393
45°	529	532	543	548	544	408
55°	410	419	426	408	402	365
65°	271	290	278	269	264	269
75°	126	139	138	127	124	136
85°	22	24	19	18	17	28
90°	0	0	0	0	0	



TEST NUMBER: P259020

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.8	783.8	783.8	783.8	783.8
2.5°	784.6	783.8	780.2	783.8	783.8
5°	781.6	780.9	778.0	780.9	780.9
7.5°	778.0	777.3	774.4	777.3	777.3
10°	772.2	771.4	769.3	772.2	771.4
12.5°	764.9	764.9	761.2	764.9	763.4
15°	756.1	755.4	752.5	755.4	755.4
17.5°	745.2	744.5	742.3	745.9	744.5
20°	733.6	732.8	731.4	735.0	734.3
22.5°	719.7	719.7	717.5	721.9	721.9
25°	704.4	704.4	703.7	708.8	708.8
27.5°	689.1	687.7	687.7	692.8	693.5
30°	669.5	669.5	670.9	676.7	676.0
32.5°	649.8	650.5	653.4	658.5	659.3
35°	627.9	628.7	633.0	640.3	639.6
37.5°	604.6	606.8	611.9	619.9	619.9
40°	581.3	582.8	589.3	598.1	598.8
42.5°	555.1	558.7	566.0	576.2	574.8
45°	528.9	532.5	543.4	548.5	544.2
47.5°	501.2	505.6	516.5	517.2	502.6
50°	472.8	477.9	490.3	475.7	467.7
52.5°	440.0	449.5	460.4	440.0	434.9
55°	410.1	418.9	426.1	407.9	402.1
57.5°	376.6	388.3	383.2	374.4	367.1
60°	342.4	354.8	347.5	338.7	332.2
62.5°	307.4	321.3	314.0	305.2	299.4
65°	271.0	289.9	278.3	268.8	263.7
67.5°	236.7	255.0	241.1	233.8	228.7
70°	199.6	214.9	207.6	198.1	193.0
72.5°	163.2	174.8	172.6	162.4	158.8
75°	126.0	139.1	137.7	126.8	123.8
77.5°	94.7	107.1	102.7	94.0	90.3
80°	67.0	75.0	70.7	60.5	57.5
82.5°	40.8	47.3	40.1	34.2	31.3
85°	21.9	24.0	18.9	17.5	16.8
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)