

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: P259037

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259037
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-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: 2745.0 lumens
Efficiency: N/A
Efficacy: 74.9 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

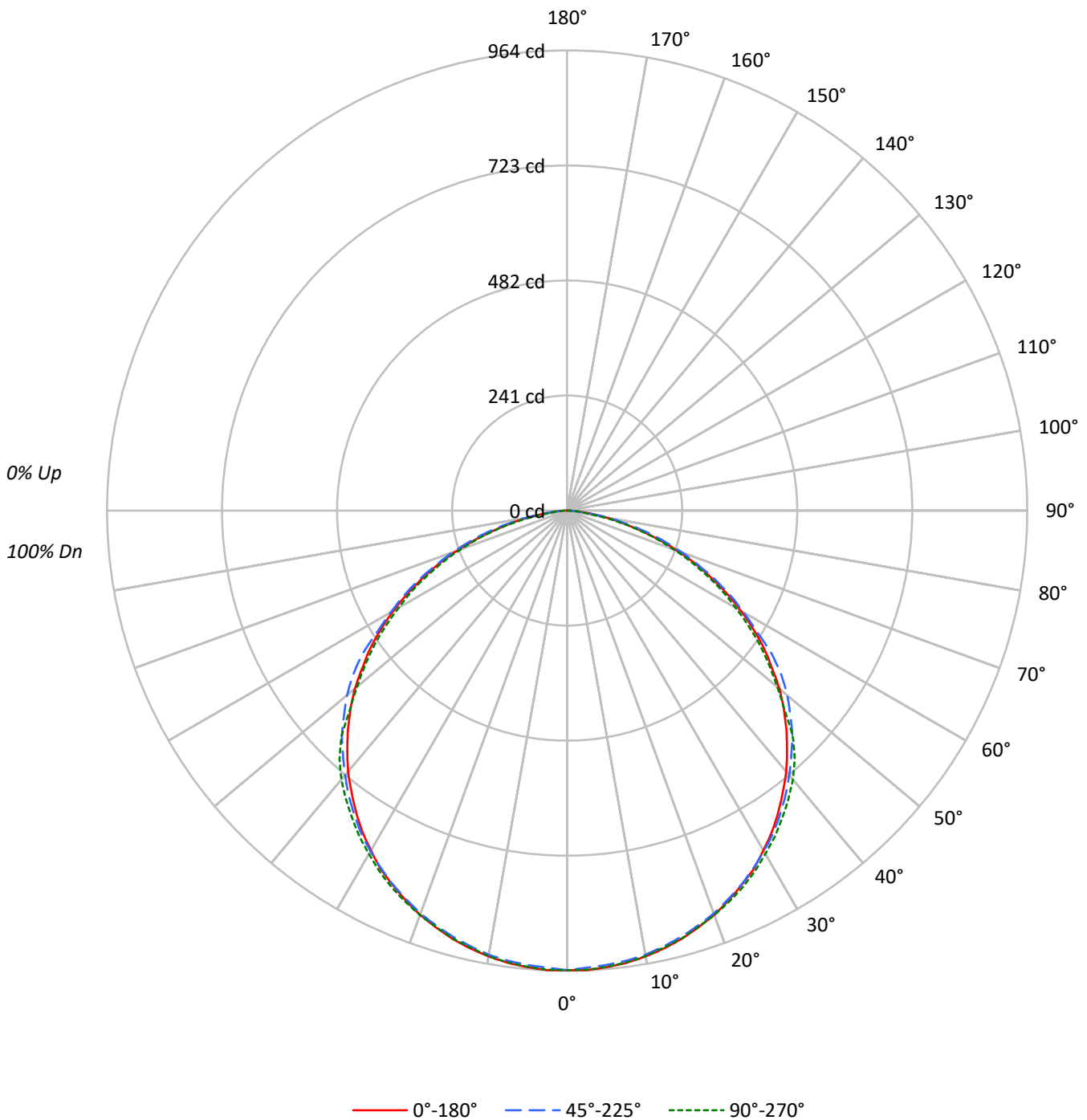
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2591	2591	2591
5°	2593	2581	2591
10°	2591	2582	2589
15°	2587	2575	2585
20°	2580	2572	2582
25°	2569	2566	2585
30°	2555	2560	2580
35°	2533	2554	2580
40°	2508	2543	2583
45°	2472	2540	2543
50°	2431	2521	2405
55°	2363	2456	2317
60°	2263	2297	2196
65°	2119	2176	2062
70°	1928	2006	1865
75°	1609	1758	1581
80°	1275	1345	1096
85°	827	719	636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	3.3
10°-20°	261.8	9.5
20°-30°	399.6	14.6
30°-40°	487.2	17.7
40°-50°	510.1	18.6
50°-60°	453.8	16.5
60°-70°	334.8	12.2
70°-80°	173.0	6.3
80°-90°	33.6	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°	752.5	27.4
0°-40°	1239.6	45.2
0°-60°	2203.6	80.3
0°-90°	2745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	960	959	956	959	959	91
15°	929	928	924	928	928	262
25°	865	865	864	870	870	399
35°	771	772	778	786	786	482
45°	650	654	667	674	668	501
55°	504	514	523	501	494	449
65°	333	356	342	330	324	330
75°	155	171	169	156	152	167
85°	27	30	23	22	21	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	962.7	962.7	962.7	962.7	962.7
2.5°	963.6	962.7	958.2	962.7	962.7
5°	960.0	959.1	955.5	959.1	959.1
7.5°	955.5	954.6	951.1	954.6	954.6
10°	948.4	947.5	944.8	948.4	947.5
12.5°	939.4	939.4	934.9	939.4	937.6
15°	928.7	927.8	924.2	927.8	927.8
17.5°	915.3	914.4	911.7	916.2	914.4
20°	900.9	900.1	898.3	902.7	901.8
22.5°	883.9	883.9	881.3	886.6	886.6
25°	865.2	865.2	864.3	870.5	870.5
27.5°	846.4	844.6	844.6	850.8	851.7
30°	822.2	822.2	824.0	831.2	830.3
32.5°	798.1	799.0	802.5	808.8	809.7
35°	771.2	772.1	777.5	786.4	785.5
37.5°	742.6	745.3	751.5	761.4	761.4
40°	714.0	715.7	723.8	734.5	735.4
42.5°	681.8	686.2	695.2	707.7	705.9
45°	649.5	654.0	667.4	673.7	668.3
47.5°	615.5	620.9	634.3	635.2	617.3
50°	580.7	586.9	602.1	584.2	574.4
52.5°	540.4	552.0	565.4	540.4	534.1
55°	503.7	514.4	523.4	501.0	493.9
57.5°	462.6	476.9	470.6	459.9	450.9
60°	420.5	435.7	426.8	416.0	408.0
62.5°	377.6	394.6	385.6	374.9	367.7
65°	332.8	356.1	341.8	330.1	323.9
67.5°	290.8	313.1	296.1	287.2	280.9
70°	245.1	263.9	255.0	243.4	237.1
72.5°	200.4	214.7	212.0	199.5	195.0
75°	154.8	170.9	169.1	155.7	152.1
77.5°	116.3	131.5	126.2	115.4	110.9
80°	82.3	92.2	86.8	74.3	70.7
82.5°	50.1	58.2	49.2	42.1	38.5
85°	26.8	29.5	23.3	21.5	20.6
87.5°	9.8	9.8	9.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)