

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: P258977

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258977  
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-L82765-W2A1-U-2700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2684.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 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

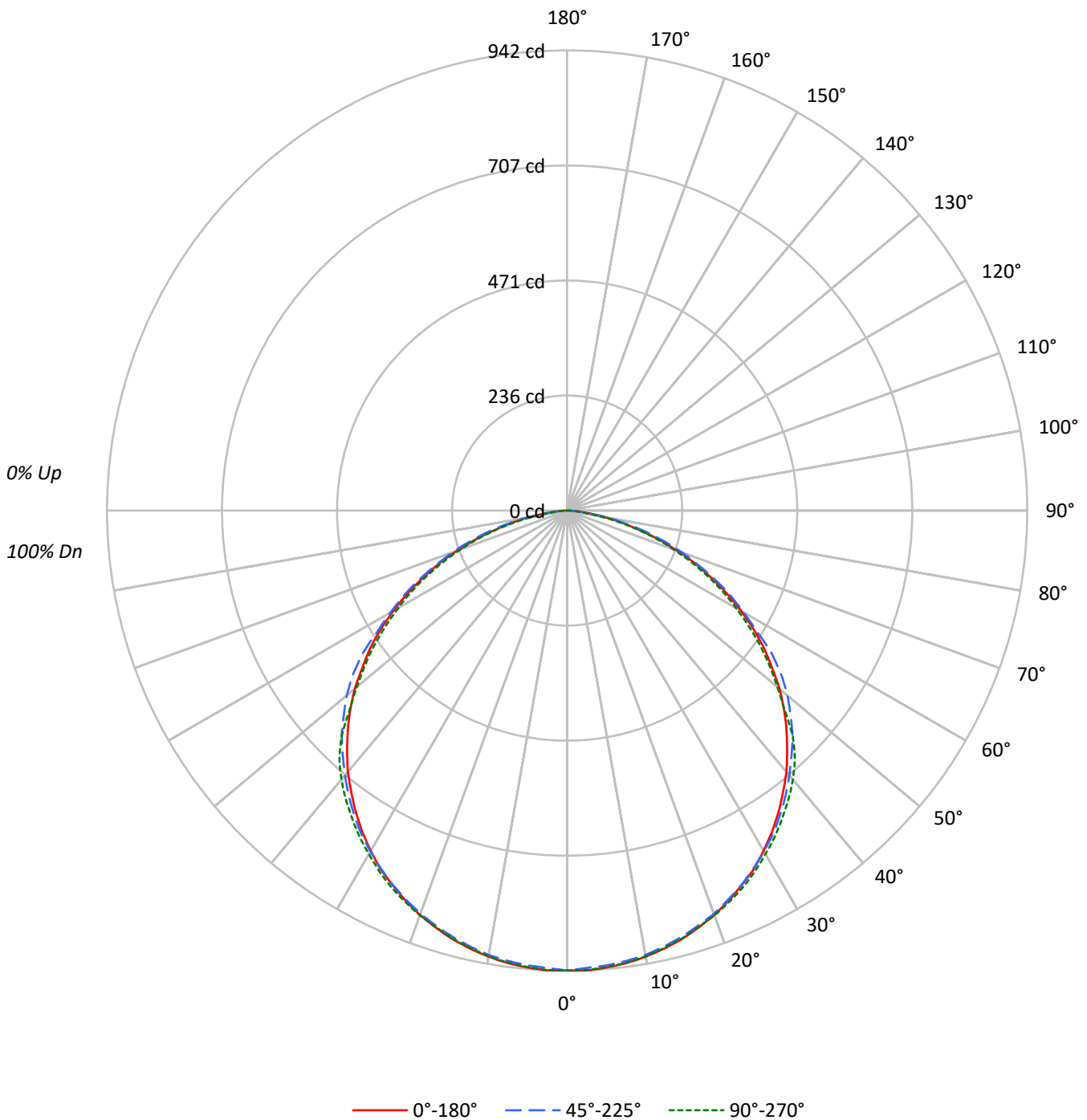
Input Watts (W): 35.619  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					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°	2533	2533	2533
5°	2536	2524	2533
10°	2534	2524	2531
15°	2530	2518	2527
20°	2523	2515	2525
25°	2512	2509	2527
30°	2498	2504	2522
35°	2477	2497	2523
40°	2452	2486	2526
45°	2417	2484	2487
50°	2377	2465	2351
55°	2311	2401	2266
60°	2213	2246	2147
65°	2072	2128	2017
70°	1886	1961	1824
75°	1573	1719	1546
80°	1247	1316	1071
85°	809	701	621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	3.3
10°-20°	255.9	9.5
20°-30°	390.7	14.6
30°-40°	476.4	17.7
40°-50°	498.8	18.6
50°-60°	443.7	16.5
60°-70°	327.4	12.2
70°-80°	169.1	6.3
80°-90°	32.9	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°	735.7	27.4
0°-40°	1212.1	45.2
0°-60°	2154.6	80.3
0°-90°	2684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	939	938	934	938	938	89
15°	908	907	904	907	907	256
25°	846	846	845	851	851	390
35°	754	755	760	769	768	472
45°	635	640	653	659	654	490
55°	492	503	512	490	483	439
65°	325	348	334	323	317	323
75°	151	167	165	152	149	164
85°	26	29	23	21	20	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	941.3	941.3	941.3	941.3	941.3
2.5°	942.2	941.3	936.9	941.3	941.3
5°	938.7	937.8	934.3	937.8	937.8
7.5°	934.3	933.4	929.9	933.4	933.4
10°	927.3	926.4	923.8	927.3	926.4
12.5°	918.5	918.5	914.2	918.5	916.8
15°	908.0	907.2	903.7	907.2	907.2
17.5°	894.9	894.0	891.4	895.8	894.0
20°	880.9	880.1	878.3	882.7	881.8
22.5°	864.3	864.3	861.7	866.9	866.9
25°	845.9	845.9	845.1	851.2	851.2
27.5°	827.6	825.8	825.8	831.9	832.8
30°	803.9	803.9	805.7	812.7	811.8
32.5°	780.3	781.2	784.7	790.8	791.7
35°	754.1	755.0	760.2	769.0	768.1
37.5°	726.1	728.7	734.8	744.5	744.5
40°	698.1	699.8	707.7	718.2	719.1
42.5°	666.6	671.0	679.7	692.0	690.2
45°	635.1	639.5	652.6	658.7	653.5
47.5°	601.9	607.1	620.2	621.1	603.6
50°	567.7	573.9	588.7	571.2	561.6
52.5°	528.4	539.8	552.9	528.4	522.3
55°	492.5	503.0	511.8	489.9	482.9
57.5°	452.3	466.3	460.1	449.6	440.9
60°	411.2	426.0	417.3	406.8	398.9
62.5°	369.2	385.8	377.0	366.5	359.5
65°	325.4	348.2	334.2	322.8	316.7
67.5°	284.3	306.2	289.6	280.8	274.7
70°	239.7	258.1	249.3	237.9	231.8
72.5°	196.0	210.0	207.3	195.1	190.7
75°	151.3	167.1	165.3	152.2	148.7
77.5°	113.7	128.6	123.3	112.8	108.5
80°	80.5	90.1	84.9	72.6	69.1
82.5°	49.0	56.9	48.1	41.1	37.6
85°	26.2	28.9	22.7	21.0	20.1
87.5°	9.6	9.6	9.6	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)