

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: P258781

Luminaire Tested: **14CZ-LD5-25-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2622.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

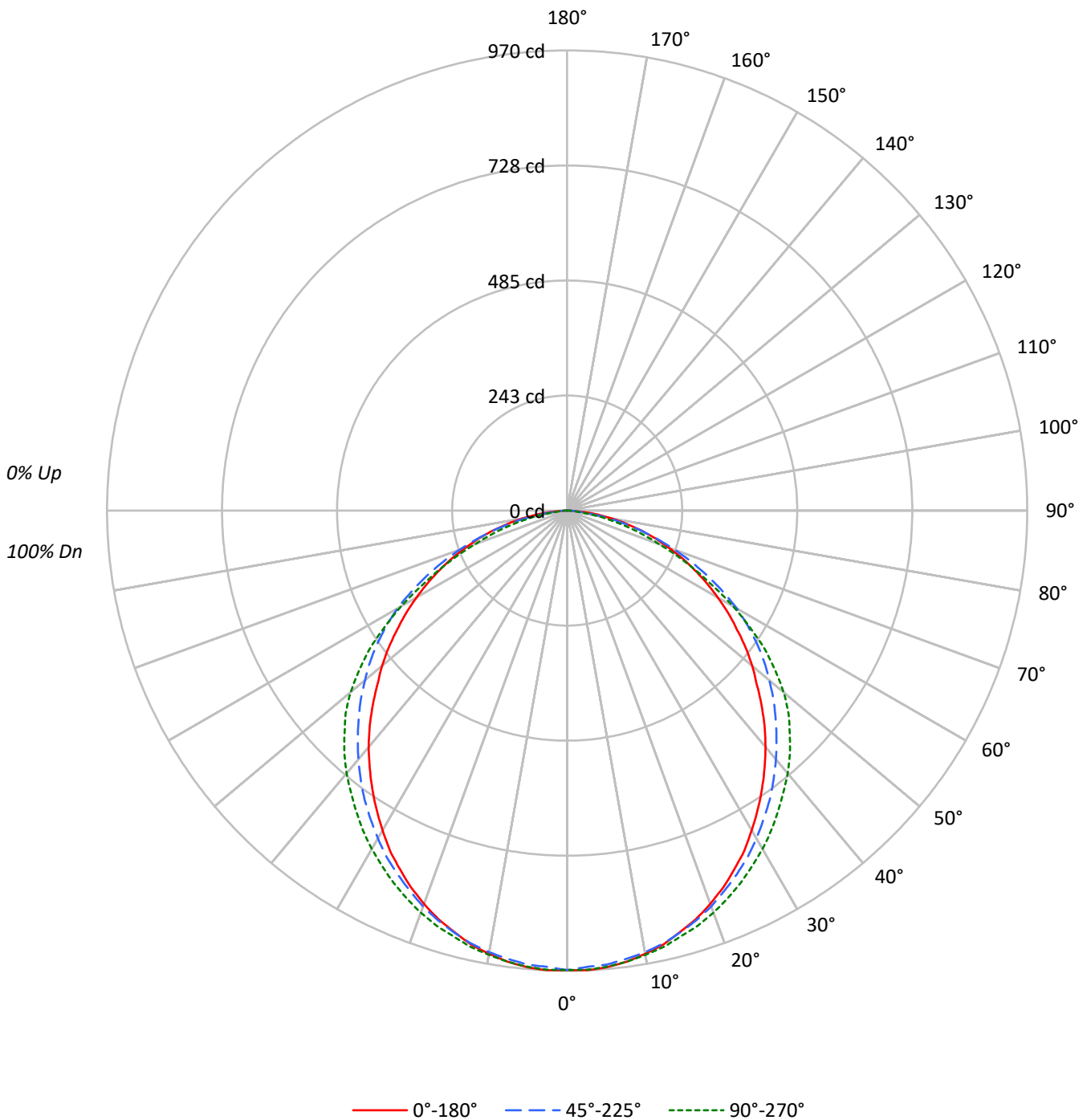
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2606	2606	2606
5°	2610	2594	2607
10°	2592	2583	2599
15°	2562	2565	2588
20°	2526	2543	2583
25°	2477	2512	2571
30°	2418	2480	2559
35°	2353	2445	2545
40°	2286	2405	2540
45°	2205	2366	2525
50°	2133	2328	2495
55°	2050	2291	2384
60°	1975	2226	2176
65°	1890	2083	1912
70°	1784	1894	1618
75°	1665	1640	1336
80°	1466	1268	978
85°	1155	614	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.5
10°-20°	260.7	9.9
20°-30°	391.3	14.9
30°-40°	466.5	17.8
40°-50°	480.5	18.3
50°-60°	428.2	16.3
60°-70°	308.5	11.8
70°-80°	161.4	6.2
80°-90°	33.4	1.3
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°	743.5	28.4
0°-40°	1210.0	46.1
0°-60°	2118.7	80.8
0°-90°	2622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	966	964	960	966	965	92
15°	920	921	921	930	929	259
25°	834	839	846	862	866	384
35°	716	726	744	769	775	448
45°	580	592	622	657	664	447
55°	437	451	488	511	508	392
65°	297	307	327	312	300	294
75°	160	168	158	137	128	170
85°	37	33	20	18	18	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	968.6	968.6	968.6	968.6	968.6
2.5°	969.7	967.4	962.7	968.6	968.6
5°	966.2	963.9	960.4	966.2	965.1
7.5°	959.2	956.9	953.4	960.4	959.2
10°	948.7	947.5	945.2	952.2	951.0
12.5°	937.0	935.9	934.7	941.7	941.7
15°	919.5	920.7	920.7	930.0	928.8
17.5°	903.1	904.3	905.5	917.2	917.2
20°	882.1	883.3	888.0	900.8	902.0
22.5°	859.9	861.1	866.9	882.1	884.4
25°	834.2	838.9	845.9	862.2	865.8
27.5°	808.5	812.0	823.7	842.4	844.7
30°	778.1	785.1	798.0	819.0	823.7
32.5°	747.7	755.9	771.1	794.5	800.3
35°	716.2	725.5	744.2	768.8	774.6
37.5°	683.5	691.7	715.0	740.7	748.9
40°	650.8	659.0	684.7	713.9	723.2
42.5°	615.7	627.4	653.1	685.8	695.2
45°	579.5	592.4	621.6	656.6	663.6
47.5°	542.1	556.1	590.0	625.1	633.2
50°	509.4	522.3	556.1	590.0	595.9
52.5°	474.4	486.0	523.4	551.5	552.6
55°	437.0	451.0	488.4	510.6	508.2
57.5°	403.1	414.8	451.0	462.7	455.7
60°	366.9	377.4	413.6	414.8	404.3
62.5°	331.8	342.3	370.4	362.2	349.3
65°	296.8	307.3	327.1	312.0	300.3
67.5°	262.9	272.2	283.9	264.0	252.4
70°	226.7	239.5	240.7	217.3	205.6
72.5°	195.1	202.1	199.8	177.6	167.1
75°	160.1	168.2	157.7	136.7	128.5
77.5°	127.4	133.2	119.2	99.3	93.5
80°	94.6	98.1	81.8	66.6	63.1
82.5°	64.3	64.3	46.7	36.2	32.7
85°	37.4	32.7	19.9	17.5	17.5
87.5°	12.9	8.2	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)