

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: P258845

Luminaire Tested: **14CZ-LD5-35-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258845
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-LD5-35-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2825.0 lumens
Efficiency: N/A
Efficacy: 103.3 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

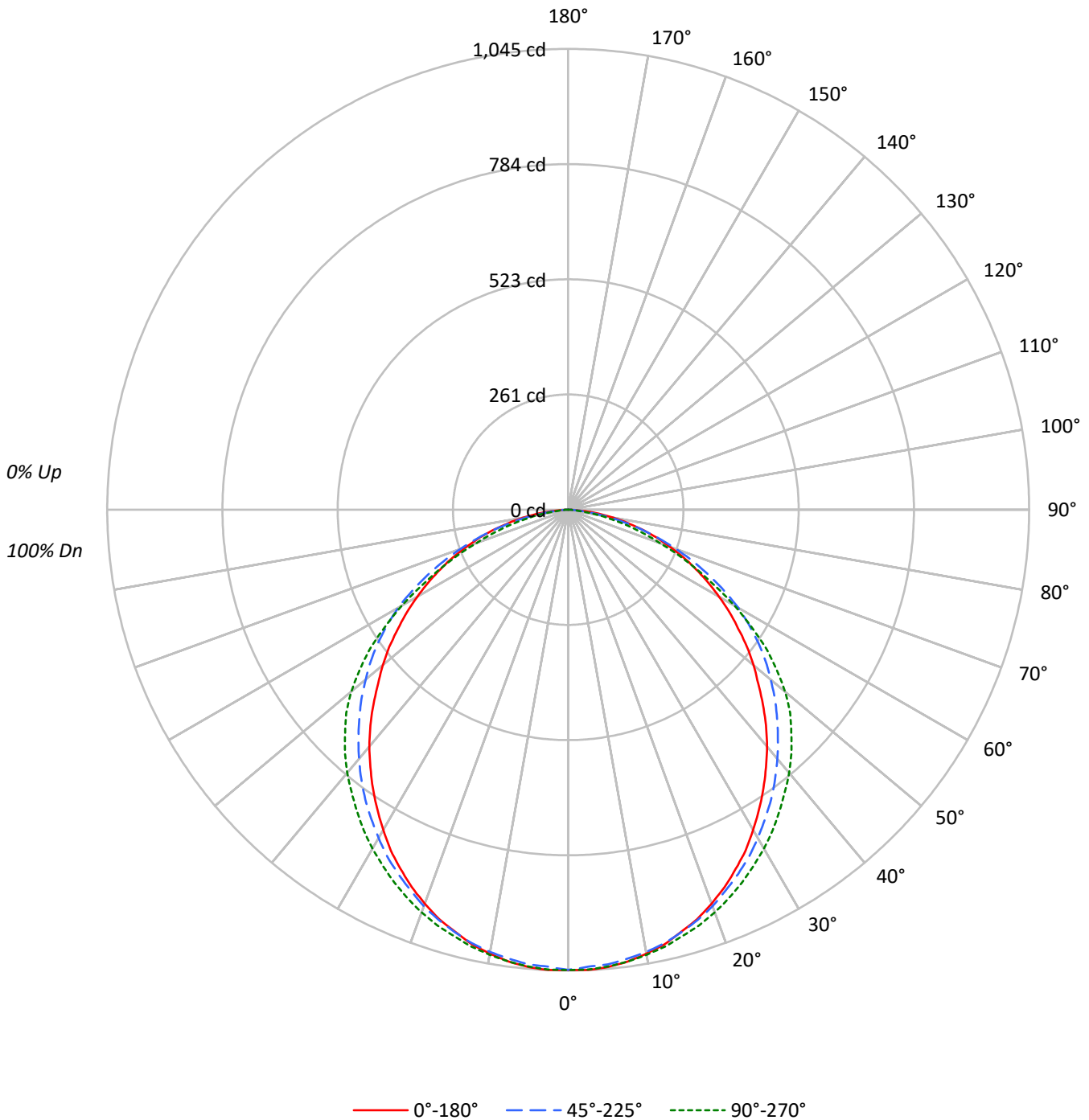
Input Watts (W): 27.342
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2808	2808	2808
5°	2812	2795	2809
10°	2793	2783	2800
15°	2760	2763	2788
20°	2722	2740	2783
25°	2669	2706	2770
30°	2605	2672	2758
35°	2535	2634	2742
40°	2463	2591	2737
45°	2376	2549	2721
50°	2298	2509	2688
55°	2209	2469	2569
60°	2127	2398	2344
65°	2036	2245	2060
70°	1921	2040	1744
75°	1794	1766	1440
80°	1581	1365	1054
85°	1244	661	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	3.5
10°-20°	280.9	9.9
20°-30°	421.6	14.9
30°-40°	502.6	17.8
40°-50°	517.7	18.3
50°-60°	461.4	16.3
60°-70°	332.4	11.8
70°-80°	173.9	6.2
80°-90°	35.9	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°	801.1	28.4
0°-40°	1303.7	46.1
0°-60°	2282.8	80.8
0°-90°	2825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1041	1038	1035	1041	1040	99
15°	991	992	992	1002	1001	280
25°	899	904	911	929	933	414
35°	772	782	802	828	835	483
45°	624	638	670	708	715	482
55°	471	486	526	550	548	422
65°	320	331	352	336	324	317
75°	172	181	170	147	138	183
85°	40	35	21	19	19	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043.6	1043.6	1043.6	1043.6	1043.6
2.5°	1044.8	1042.3	1037.3	1043.6	1043.6
5°	1041.0	1038.5	1034.7	1041.0	1039.8
7.5°	1033.5	1031.0	1027.2	1034.7	1033.5
10°	1022.2	1020.9	1018.4	1025.9	1024.7
12.5°	1009.6	1008.3	1007.1	1014.6	1014.6
15°	990.7	991.9	991.9	1002.0	1000.8
17.5°	973.1	974.3	975.6	988.2	988.2
20°	950.4	951.7	956.7	970.5	971.8
22.5°	926.5	927.7	934.0	950.4	952.9
25°	898.8	903.8	911.4	929.0	932.8
27.5°	871.1	874.9	887.5	907.6	910.1
30°	838.4	845.9	859.8	882.4	887.5
32.5°	805.6	814.5	830.8	856.0	862.3
35°	771.7	781.7	801.9	828.3	834.6
37.5°	736.4	745.2	770.4	798.1	806.9
40°	701.2	710.0	737.7	769.1	779.2
42.5°	663.4	676.0	703.7	738.9	749.0
45°	624.4	638.2	669.7	707.5	715.0
47.5°	584.1	599.2	635.7	673.5	682.3
50°	548.8	562.7	599.2	635.7	642.0
52.5°	511.1	523.7	563.9	594.2	595.4
55°	470.8	485.9	526.2	550.1	547.6
57.5°	434.3	446.9	485.9	498.5	490.9
60°	395.3	406.6	445.6	446.9	435.5
62.5°	357.5	368.8	399.0	390.2	376.4
65°	319.7	331.1	352.5	336.1	323.5
67.5°	283.2	293.3	305.9	284.5	271.9
70°	244.2	258.1	259.3	234.1	221.6
72.5°	210.2	217.8	215.3	191.3	180.0
75°	172.5	181.3	169.9	147.3	138.5
77.5°	137.2	143.5	128.4	107.0	100.7
80°	102.0	105.7	88.1	71.8	68.0
82.5°	69.2	69.2	50.4	39.0	35.2
85°	40.3	35.2	21.4	18.9	18.9
87.5°	13.8	8.8	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)