

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: P275532

Luminaire Tested: **14CZ2-35-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3078.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

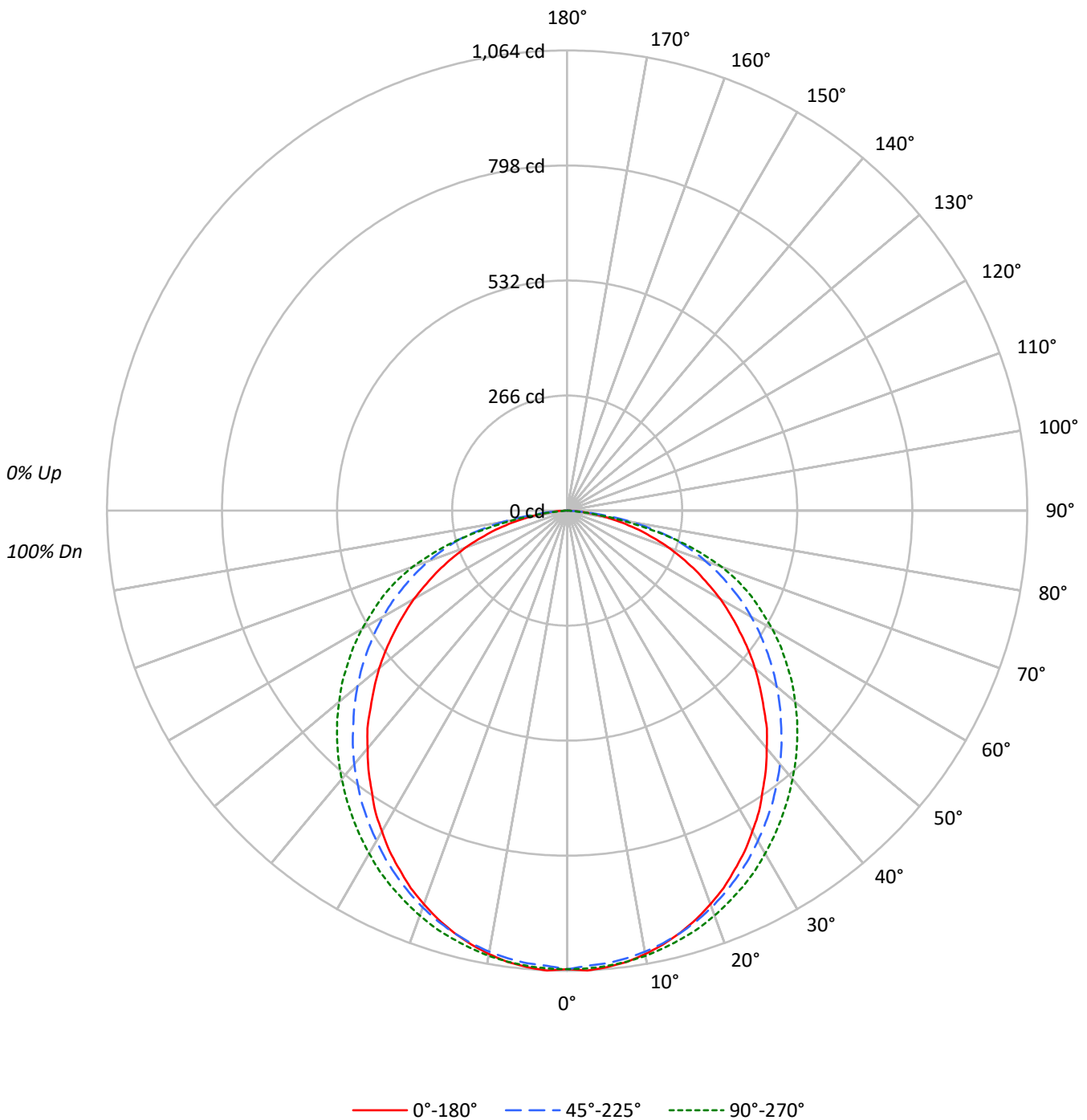
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2854	2854	2854
5°	2863	2838	2855
10°	2845	2830	2856
15°	2815	2817	2855
20°	2773	2797	2854
25°	2721	2769	2851
30°	2661	2740	2845
35°	2591	2717	2843
40°	2522	2690	2847
45°	2445	2662	2863
50°	2373	2649	2882
55°	2283	2640	2908
60°	2202	2645	2948
65°	2089	2653	2993
70°	1960	2673	2991
75°	1777	2697	2704
80°	1457	2329	1925
85°	1081	1102	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	3.3
10°-20°	286.6	9.3
20°-30°	431.8	14.0
30°-40°	518.1	16.8
40°-50°	540.0	17.5
50°-60°	500.0	16.2
60°-70°	404.0	13.1
70°-80°	246.3	8.0
80°-90°	50.8	1.7
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°	818.8	26.6
0°-40°	1336.9	43.4
0°-60°	2376.9	77.2
0°-90°	3078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1060	1057	1051	1058	1057	101
15°	1010	1011	1011	1025	1025	285
25°	916	922	933	956	960	422
35°	789	801	827	857	866	494
45°	642	662	699	738	752	497
55°	487	512	563	607	620	436
65°	328	360	417	458	470	324
75°	171	209	259	264	260	179
85°	35	52	36	20	14	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.4	1060.4	1060.4	1060.4	1060.4
2.5°	1064.5	1061.1	1053.5	1061.1	1059.7
5°	1059.7	1056.9	1050.8	1058.3	1056.9
7.5°	1052.8	1050.1	1044.6	1053.5	1052.1
10°	1041.2	1039.8	1035.7	1046.0	1045.3
12.5°	1027.4	1026.8	1024.7	1036.4	1035.7
15°	1010.3	1011.0	1011.0	1024.7	1024.7
17.5°	991.1	992.4	995.2	1010.3	1012.3
20°	968.4	971.2	976.6	993.8	996.6
22.5°	945.1	947.1	955.4	976.0	978.7
25°	916.3	921.7	932.7	956.1	960.2
27.5°	888.8	893.6	908.7	932.7	939.6
30°	856.5	864.1	881.9	908.0	915.6
32.5°	825.7	833.9	854.5	884.7	891.5
35°	788.6	800.9	827.0	857.2	865.5
37.5°	755.0	766.6	796.1	829.1	838.7
40°	717.9	732.3	765.9	800.9	810.6
42.5°	683.6	697.3	733.7	769.4	782.4
45°	642.4	661.6	699.4	738.5	752.2
47.5°	604.7	623.9	667.1	709.0	721.3
50°	566.9	587.5	632.8	676.0	688.4
52.5°	527.8	549.8	598.5	641.7	656.1
55°	486.6	512.0	562.8	606.7	619.8
57.5°	447.5	473.6	527.8	572.4	585.4
60°	409.1	435.8	491.4	534.0	547.7
62.5°	366.5	398.1	455.7	497.6	507.9
65°	328.1	360.3	416.6	458.5	470.1
67.5°	287.6	322.6	378.9	417.3	428.3
70°	249.1	285.5	339.7	375.4	380.2
72.5°	208.0	245.0	299.9	322.6	322.6
75°	170.9	208.6	259.4	263.6	260.1
77.5°	130.4	172.3	205.2	197.0	188.7
80°	94.0	135.2	150.3	135.2	124.2
82.5°	63.1	98.1	90.6	72.1	63.8
85°	35.0	52.2	35.7	19.9	14.4
87.5°	13.0	11.7	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)