

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: P275566

Luminaire Tested: **14CZ2-29-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-S-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2768.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

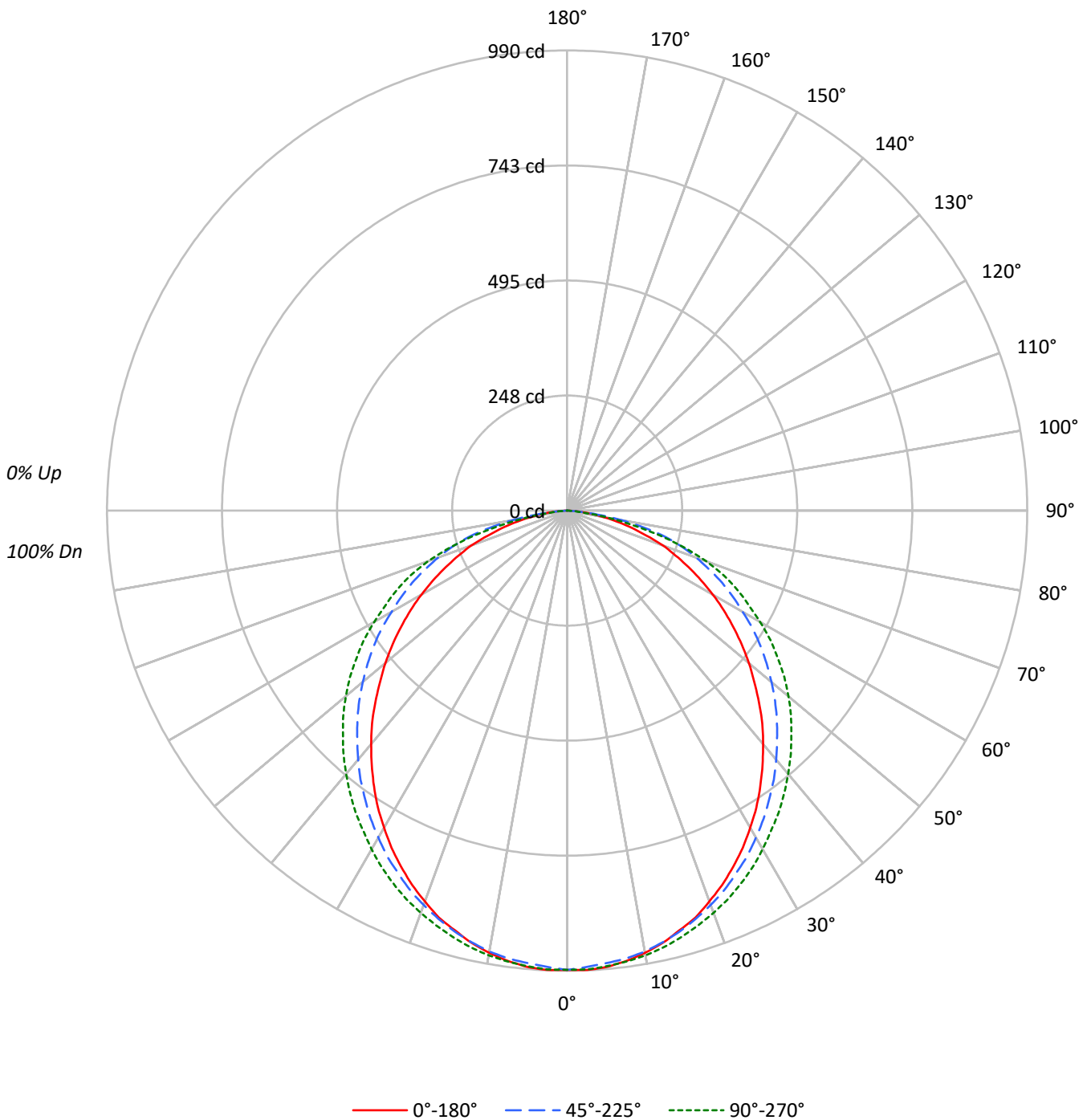
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2659	2659	2659
5°	2662	2640	2658
10°	2640	2632	2655
15°	2604	2612	2646
20°	2562	2586	2637
25°	2510	2555	2628
30°	2448	2525	2614
35°	2380	2489	2606
40°	2304	2459	2598
45°	2220	2429	2596
50°	2137	2402	2603
55°	2047	2382	2595
60°	1950	2349	2578
65°	1835	2342	2578
70°	1728	2322	2505
75°	1498	2269	2141
80°	1212	1829	1426
85°	806	636	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.4
10°-20°	265.5	9.6
20°-30°	398.3	14.4
30°-40°	475.1	17.2
40°-50°	491.2	17.7
50°-60°	448.4	16.2
60°-70°	352.9	12.7
70°-80°	205.4	7.4
80°-90°	37.8	1.4
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°	757.1	27.4
0°-40°	1232.2	44.5
0°-60°	2171.8	78.5
0°-90°	2768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	985	983	977	985	984	93
15°	935	936	937	950	950	264
25°	845	850	860	881	885	389
35°	725	734	758	786	793	453
45°	583	602	638	674	682	450
55°	436	460	508	545	553	390
65°	288	318	368	397	405	286
75°	144	178	218	214	206	153
85°	26	37	21	16	14	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.1	988.1	988.1	988.1	988.1
2.5°	989.5	986.8	982.6	989.5	988.1
5°	985.4	982.6	977.2	985.4	984.0
7.5°	977.2	974.4	971.7	979.9	978.5
10°	966.2	964.8	963.4	973.0	971.7
12.5°	952.4	952.4	951.1	962.1	962.1
15°	934.6	936.0	937.4	949.7	949.7
17.5°	918.1	916.8	920.9	934.6	936.0
20°	894.8	897.6	903.0	919.5	920.9
22.5°	871.5	874.2	883.8	900.3	904.4
25°	845.4	849.5	860.5	881.1	885.2
27.5°	818.0	823.4	838.5	860.5	864.6
30°	787.8	796.0	812.5	837.2	841.3
32.5°	757.6	765.8	786.4	811.1	816.6
35°	724.6	734.2	757.6	786.4	793.2
37.5°	690.3	702.7	730.1	758.9	767.2
40°	656.0	669.7	699.9	730.1	739.7
42.5°	621.7	635.4	668.4	702.7	712.3
45°	583.3	602.5	638.2	673.8	682.1
47.5°	546.2	566.8	606.6	642.3	653.3
50°	510.5	531.1	573.7	610.7	621.7
52.5°	473.5	495.4	540.7	579.2	588.8
55°	436.4	459.8	507.8	544.8	553.1
57.5°	399.4	424.1	473.5	509.2	518.8
60°	362.3	388.4	436.4	472.1	479.0
62.5°	325.3	352.7	402.1	433.7	440.5
65°	288.2	318.4	367.8	396.6	404.9
67.5°	252.5	282.7	330.7	358.2	365.1
70°	219.6	247.0	295.1	315.7	318.4
72.5°	178.4	212.7	259.4	270.4	263.5
75°	144.1	178.4	218.2	214.1	205.9
77.5°	109.8	144.1	170.2	156.5	145.5
80°	78.2	112.5	118.0	97.4	92.0
82.5°	50.8	78.2	65.9	50.8	41.2
85°	26.1	37.1	20.6	16.5	13.7
87.5°	8.2	5.5	2.7	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)