

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: P275707

Luminaire Tested: **14CZ2-39-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275707
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: 14CZ2-39-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3167.0 lumens
Efficiency: N/A
Efficacy: 103.2 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

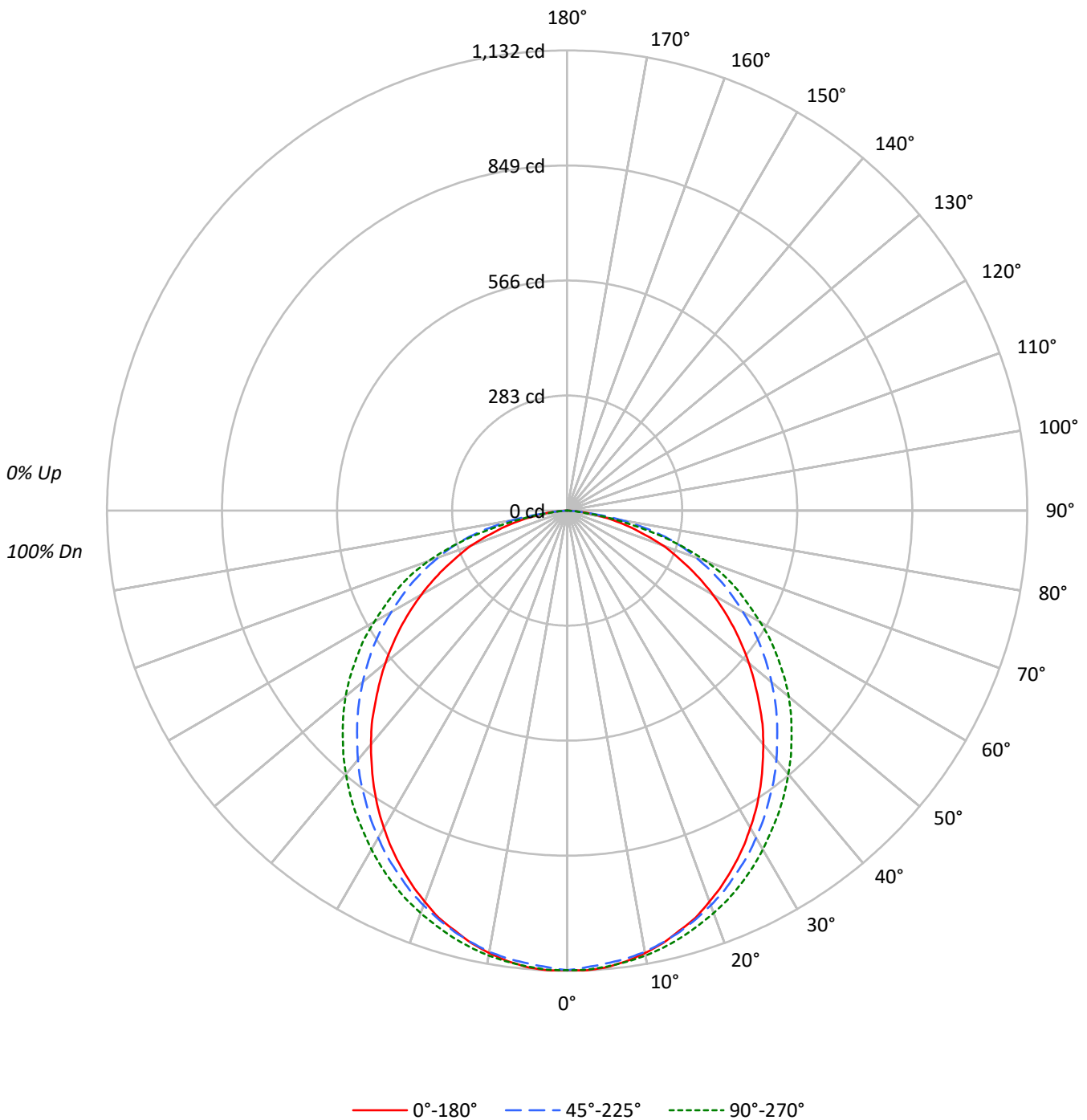
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3042	3042	3042
5°	3045	3020	3041
10°	3020	3012	3038
15°	2979	2988	3027
20°	2932	2959	3017
25°	2872	2923	3007
30°	2801	2889	2991
35°	2724	2848	2982
40°	2637	2813	2973
45°	2539	2779	2970
50°	2445	2748	2978
55°	2343	2726	2969
60°	2231	2687	2949
65°	2099	2679	2949
70°	1976	2656	2866
75°	1714	2596	2449
80°	1387	2092	1630
85°	920	729	485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.4
10°-20°	303.8	9.6
20°-30°	455.7	14.4
30°-40°	543.6	17.2
40°-50°	562.0	17.7
50°-60°	513.1	16.2
60°-70°	403.8	12.7
70°-80°	235.0	7.4
80°-90°	43.3	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°	866.2	27.4
0°-40°	1409.8	44.5
0°-60°	2484.9	78.5
0°-90°	3167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1127	1124	1118	1127	1126	107
15°	1069	1071	1072	1087	1087	302
25°	967	972	984	1008	1013	445
35°	829	840	867	900	908	518
45°	667	689	730	771	780	515
55°	499	526	581	623	633	446
65°	330	364	421	454	463	327
75°	165	204	250	245	236	175
85°	30	42	24	19	16	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1130.6	1130.6	1130.6	1130.6	1130.6
2.5°	1132.1	1129.0	1124.3	1132.1	1130.6
5°	1127.4	1124.3	1118.0	1127.4	1125.9
7.5°	1118.0	1114.9	1111.7	1121.1	1119.6
10°	1105.4	1103.9	1102.3	1113.3	1111.7
12.5°	1089.7	1089.7	1088.2	1100.7	1100.7
15°	1069.3	1070.9	1072.5	1086.6	1086.6
17.5°	1050.5	1048.9	1053.6	1069.3	1070.9
20°	1023.8	1026.9	1033.2	1052.1	1053.6
22.5°	997.1	1000.2	1011.2	1030.1	1034.8
25°	967.3	972.0	984.5	1008.1	1012.8
27.5°	935.9	942.1	959.4	984.5	989.2
30°	901.3	910.7	929.6	957.8	962.6
32.5°	866.8	876.2	899.7	928.0	934.3
35°	829.1	840.1	866.8	899.7	907.6
37.5°	789.8	804.0	835.4	868.3	877.8
40°	750.6	766.3	800.8	835.4	846.4
42.5°	711.3	727.0	764.7	804.0	814.9
45°	667.3	689.3	730.2	771.0	780.4
47.5°	625.0	648.5	694.0	734.9	747.4
50°	584.1	607.7	656.4	698.8	711.3
52.5°	541.7	566.9	618.7	662.6	673.6
55°	499.3	526.0	581.0	623.4	632.8
57.5°	456.9	485.2	541.7	582.6	593.5
60°	414.5	444.4	499.3	540.2	548.0
62.5°	372.1	403.5	460.1	496.2	504.0
65°	329.7	364.3	420.8	453.8	463.2
67.5°	288.9	323.5	378.4	409.8	417.7
70°	251.2	282.6	337.6	361.2	364.3
72.5°	204.1	243.4	296.8	309.3	301.5
75°	164.9	204.1	249.7	245.0	235.5
77.5°	125.6	164.9	194.7	179.0	166.4
80°	89.5	128.8	135.0	111.5	105.2
82.5°	58.1	89.5	75.4	58.1	47.1
85°	29.8	42.4	23.6	18.8	15.7
87.5°	9.4	6.3	3.1	3.1	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)