

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: P275706

Luminaire Tested: **14CZ2-39-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275706
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-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3046.0 lumens
Efficiency: N/A
Efficacy: 98.7 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

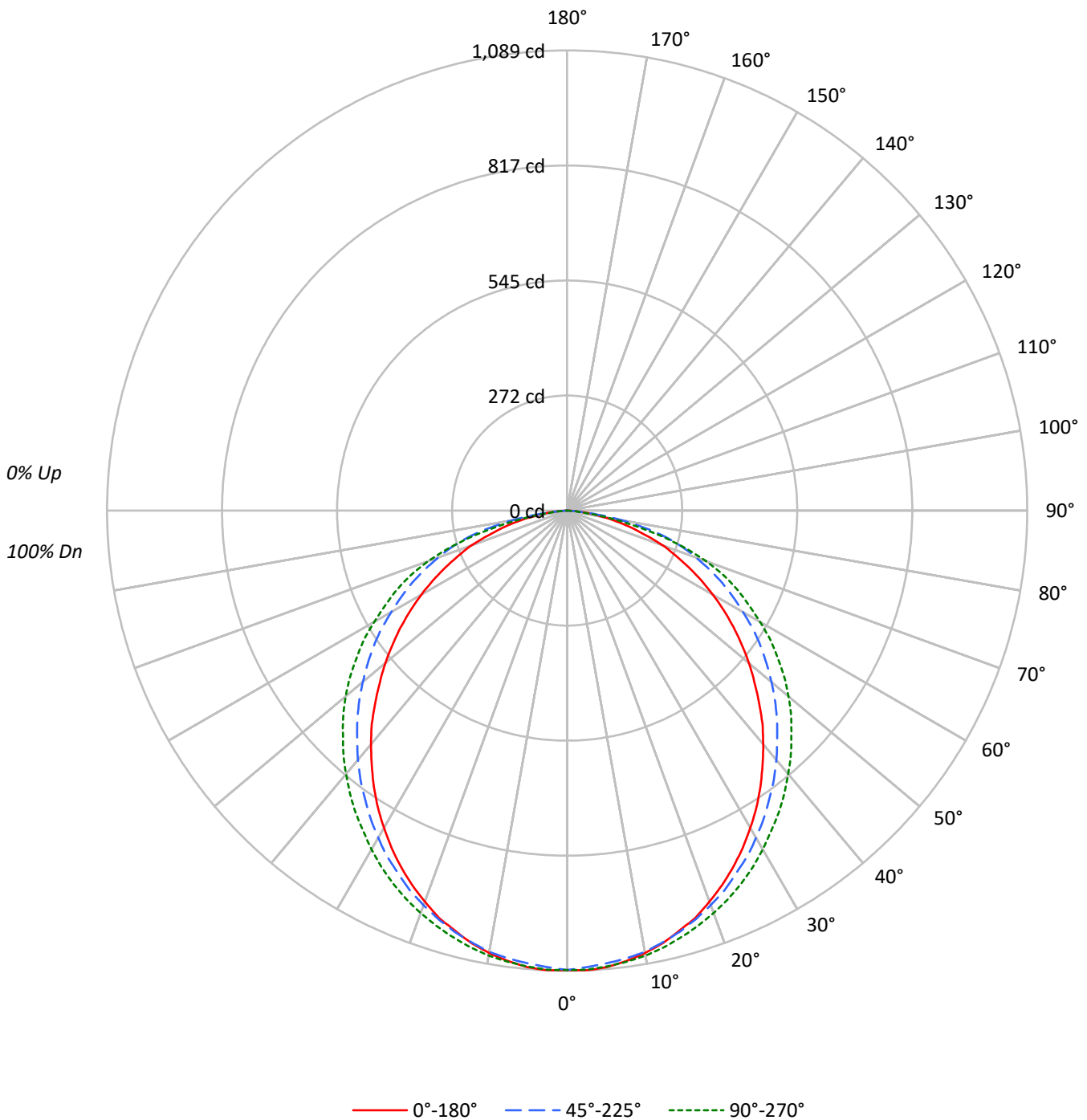
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	2926	2926	2926
5°	2929	2905	2925
10°	2905	2897	2922
15°	2865	2874	2912
20°	2820	2846	2902
25°	2762	2812	2892
30°	2694	2778	2877
35°	2620	2739	2868
40°	2536	2706	2859
45°	2443	2673	2856
50°	2352	2643	2864
55°	2253	2622	2855
60°	2146	2585	2837
65°	2020	2577	2837
70°	1901	2555	2757
75°	1649	2496	2355
80°	1334	2013	1568
85°	886	701	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.4
10°-20°	292.2	9.6
20°-30°	438.3	14.4
30°-40°	522.8	17.2
40°-50°	540.5	17.7
50°-60°	493.5	16.2
60°-70°	388.3	12.7
70°-80°	226.1	7.4
80°-90°	41.7	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°	833.1	27.4
0°-40°	1356.0	44.5
0°-60°	2389.9	78.5
0°-90°	3046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1084	1081	1075	1084	1083	103
15°	1028	1030	1032	1045	1045	290
25°	930	935	947	970	974	428
35°	797	808	834	865	873	498
45°	642	663	702	742	751	496
55°	480	506	559	600	609	429
65°	317	350	405	436	446	315
75°	159	196	240	236	226	169
85°	29	41	23	18	15	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.4	1087.4	1087.4	1087.4	1087.4
2.5°	1088.9	1085.9	1081.3	1088.9	1087.4
5°	1084.4	1081.3	1075.3	1084.4	1082.8
7.5°	1075.3	1072.3	1069.2	1078.3	1076.8
10°	1063.2	1061.7	1060.2	1070.8	1069.2
12.5°	1048.1	1048.1	1046.6	1058.7	1058.7
15°	1028.5	1030.0	1031.5	1045.1	1045.1
17.5°	1010.3	1008.8	1013.4	1028.5	1030.0
20°	984.7	987.7	993.7	1011.9	1013.4
22.5°	959.0	962.0	972.6	990.7	995.2
25°	930.3	934.8	946.9	969.6	974.1
27.5°	900.1	906.1	922.8	946.9	951.5
30°	866.9	875.9	894.1	921.2	925.8
32.5°	833.7	842.7	865.4	892.6	898.6
35°	797.4	808.0	833.7	865.4	872.9
37.5°	759.6	773.2	803.4	835.2	844.2
40°	721.9	737.0	770.2	803.4	814.0
42.5°	684.1	699.2	735.5	773.2	783.8
45°	641.9	663.0	702.3	741.5	750.6
47.5°	601.1	623.7	667.5	706.8	718.9
50°	561.8	584.5	631.3	672.1	684.1
52.5°	521.0	545.2	595.0	637.3	647.9
55°	480.3	505.9	558.8	599.6	608.6
57.5°	439.5	466.7	521.0	560.3	570.9
60°	398.7	427.4	480.3	519.5	527.1
62.5°	357.9	388.1	442.5	477.2	484.8
65°	317.2	350.4	404.7	436.5	445.5
67.5°	277.9	311.1	364.0	394.2	401.7
70°	241.6	271.8	324.7	347.4	350.4
72.5°	196.3	234.1	285.4	297.5	290.0
75°	158.6	196.3	240.1	235.6	226.5
77.5°	120.8	158.6	187.3	172.2	160.1
80°	86.1	123.8	129.9	107.2	101.2
82.5°	55.9	86.1	72.5	55.9	45.3
85°	28.7	40.8	22.7	18.1	15.1
87.5°	9.1	6.0	3.0	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)