

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: P275390

Luminaire Tested: **14CZ2-20-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275390
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: 14CZ2-20-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2182.0 lumens
Efficiency: N/A
Efficacy: 138.8 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

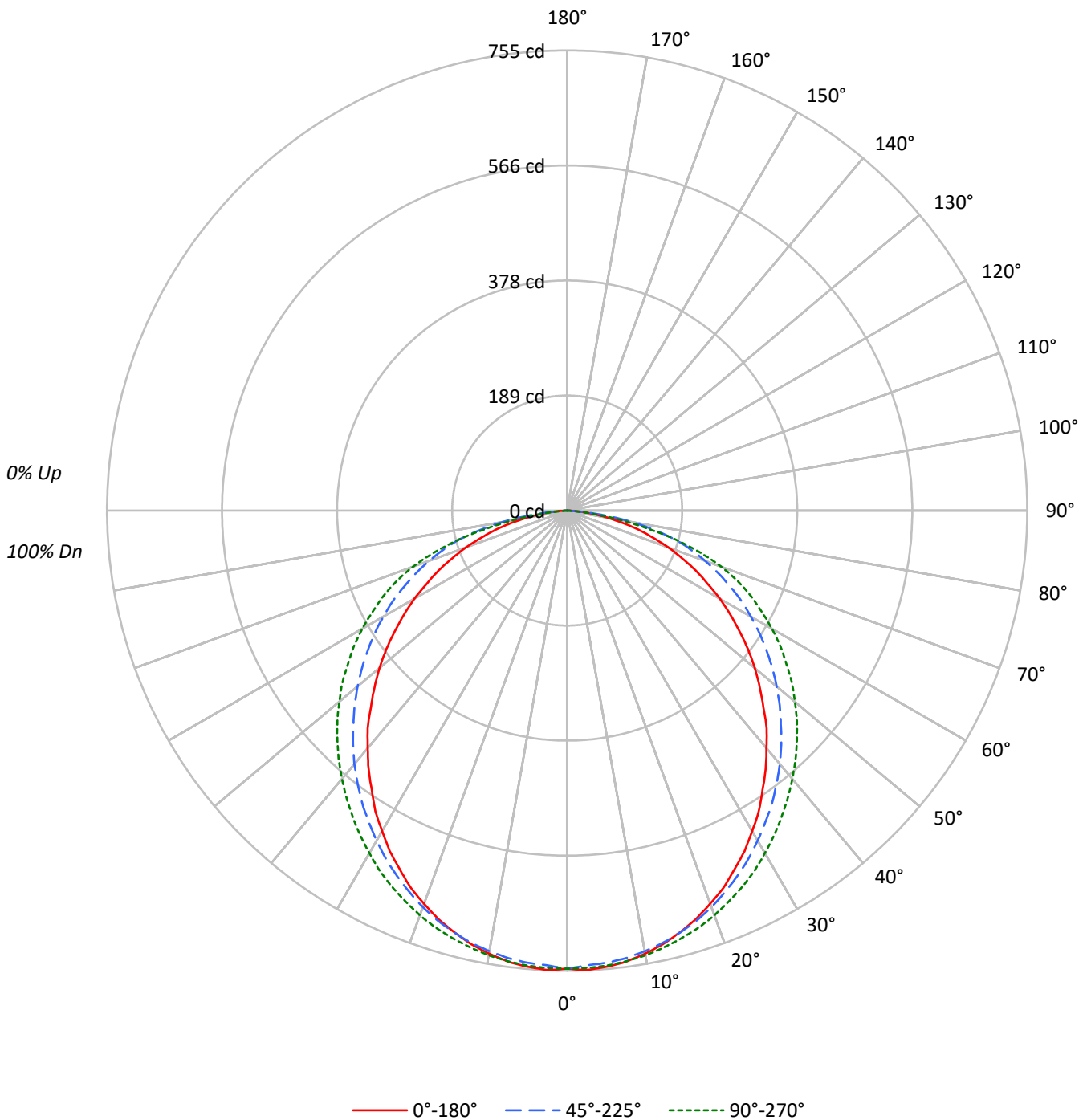
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2023	2023	2023
5°	2029	2012	2024
10°	2017	2006	2025
15°	1995	1997	2024
20°	1966	1983	2023
25°	1928	1963	2021
30°	1887	1943	2017
35°	1836	1926	2015
40°	1788	1907	2018
45°	1733	1887	2029
50°	1683	1878	2043
55°	1619	1872	2061
60°	1561	1875	2090
65°	1481	1880	2122
70°	1389	1895	2120
75°	1259	1912	1917
80°	1034	1652	1365
85°	766	781	315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.3
10°-20°	203.2	9.3
20°-30°	306.1	14.0
30°-40°	367.3	16.8
40°-50°	382.8	17.5
50°-60°	354.4	16.2
60°-70°	286.4	13.1
70°-80°	174.6	8.0
80°-90°	36.0	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°	580.4	26.6
0°-40°	947.7	43.4
0°-60°	1685.0	77.2
0°-90°	2182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	751	749	745	750	749	71
15°	716	717	717	726	726	202
25°	650	653	661	678	681	299
35°	559	568	586	608	614	350
45°	455	469	496	524	533	352
55°	345	363	399	430	439	309
65°	233	255	295	325	333	230
75°	121	148	184	187	184	127
85°	25	37	25	14	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	751.7	751.7	751.7	751.7	751.7
2.5°	754.6	752.2	746.8	752.2	751.2
5°	751.2	749.3	744.9	750.2	749.3
7.5°	746.4	744.4	740.5	746.8	745.9
10°	738.1	737.1	734.2	741.5	741.0
12.5°	728.4	727.9	726.4	734.7	734.2
15°	716.2	716.7	716.7	726.4	726.4
17.5°	702.6	703.5	705.5	716.2	717.6
20°	686.5	688.5	692.3	704.5	706.5
22.5°	670.0	671.4	677.3	691.9	693.8
25°	649.5	653.4	661.2	677.8	680.7
27.5°	630.1	633.5	644.2	661.2	666.1
30°	607.2	612.6	625.2	643.7	649.0
32.5°	585.3	591.1	605.7	627.2	632.0
35°	559.0	567.8	586.3	607.7	613.5
37.5°	535.2	543.5	564.4	587.7	594.6
40°	508.9	519.1	543.0	567.8	574.6
42.5°	484.6	494.3	520.1	545.4	554.7
45°	455.4	469.0	495.8	523.5	533.2
47.5°	428.6	442.3	472.9	502.6	511.4
50°	401.9	416.5	448.6	479.2	488.0
52.5°	374.2	389.7	424.3	454.9	465.1
55°	345.0	363.0	399.0	430.1	439.3
57.5°	317.2	335.7	374.2	405.8	415.0
60°	290.0	309.0	348.4	378.5	388.3
62.5°	259.8	282.2	323.1	352.7	360.0
65°	232.6	255.4	295.3	325.0	333.3
67.5°	203.9	228.7	268.6	295.8	303.6
70°	176.6	202.4	240.8	266.1	269.5
72.5°	147.4	173.7	212.6	228.7	228.7
75°	121.1	147.9	183.9	186.8	184.4
77.5°	92.4	122.1	145.5	139.6	133.8
80°	66.7	95.8	106.6	95.8	88.1
82.5°	44.8	69.6	64.2	51.1	45.2
85°	24.8	37.0	25.3	14.1	10.2
87.5°	9.2	8.3	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)