

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: P275589

Luminaire Tested: **14CZ2-20-S-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275589
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: 14CZ2-20-S-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1962.0 lumens
Efficiency: N/A
Efficacy: 122.7 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

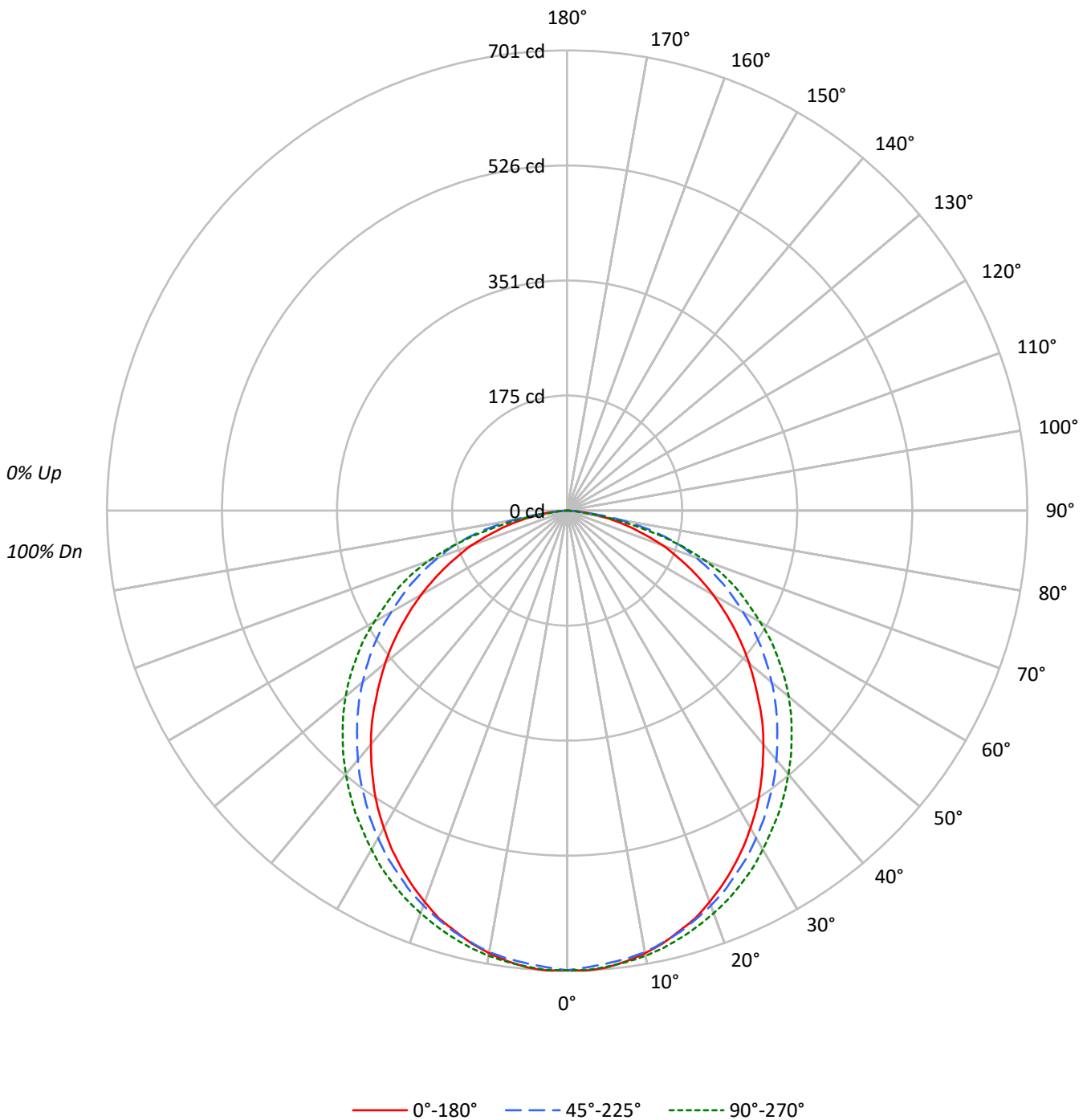
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1885	1885	1885
5°	1887	1871	1884
10°	1871	1866	1882
15°	1846	1851	1875
20°	1816	1833	1869
25°	1779	1811	1863
30°	1735	1789	1853
35°	1687	1764	1847
40°	1633	1743	1842
45°	1573	1721	1840
50°	1515	1702	1845
55°	1451	1688	1839
60°	1382	1665	1827
65°	1301	1660	1827
70°	1224	1645	1776
75°	1062	1608	1517
80°	859	1297	1010
85°	571	451	299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	3.4
10°-20°	188.2	9.6
20°-30°	282.3	14.4
30°-40°	336.8	17.2
40°-50°	348.2	17.7
50°-60°	317.9	16.2
60°-70°	250.1	12.7
70°-80°	145.6	7.4
80°-90°	26.8	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°	536.7	27.4
0°-40°	873.4	44.5
0°-60°	1539.4	78.5
0°-90°	1962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	698	696	693	698	698	66
15°	662	663	664	673	673	187
25°	599	602	610	624	627	276
35°	514	520	537	557	562	321
45°	413	427	452	478	484	319
55°	309	326	360	386	392	277
65°	204	226	261	281	287	203
75°	102	126	155	152	146	109
85°	18	26	15	12	10	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.4	700.4	700.4	700.4	700.4
2.5°	701.4	699.4	696.5	701.4	700.4
5°	698.5	696.5	692.6	698.5	697.5
7.5°	692.6	690.7	688.7	694.6	693.6
10°	684.8	683.9	682.9	689.7	688.7
12.5°	675.1	675.1	674.1	681.9	681.9
15°	662.5	663.4	664.4	673.2	673.2
17.5°	650.8	649.8	652.7	662.5	663.4
20°	634.3	636.2	640.1	651.8	652.7
22.5°	617.7	619.7	626.5	638.1	641.1
25°	599.2	602.2	609.9	624.5	627.4
27.5°	579.8	583.7	594.4	609.9	612.9
30°	558.4	564.2	575.9	593.4	596.3
32.5°	537.0	542.8	557.4	574.9	578.8
35°	513.6	520.4	537.0	557.4	562.3
37.5°	489.3	498.1	517.5	537.9	543.8
40°	465.0	474.7	496.1	517.5	524.3
42.5°	440.7	450.4	473.7	498.1	504.9
45°	413.4	427.1	452.3	477.6	483.5
47.5°	387.2	401.8	430.0	455.3	463.0
50°	361.9	376.5	406.6	432.9	440.7
52.5°	335.6	351.2	383.3	410.5	417.3
55°	309.3	325.9	359.9	386.2	392.0
57.5°	283.1	300.6	335.6	360.9	367.7
60°	256.8	275.3	309.3	334.6	339.5
62.5°	230.5	250.0	285.0	307.4	312.3
65°	204.3	225.7	260.7	281.1	287.0
67.5°	179.0	200.4	234.4	253.9	258.8
70°	155.6	175.1	209.1	223.7	225.7
72.5°	126.5	150.8	183.9	191.6	186.8
75°	102.1	126.5	154.7	151.8	145.9
77.5°	77.8	102.1	120.6	110.9	103.1
80°	55.4	79.8	83.7	69.1	65.2
82.5°	36.0	55.4	46.7	36.0	29.2
85°	18.5	26.3	14.6	11.7	9.7
87.5°	5.8	3.9	1.9	1.9	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)