

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: P275773

Luminaire Tested: **14CZ2-35-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-RDP-UNV-L93050-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2089.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

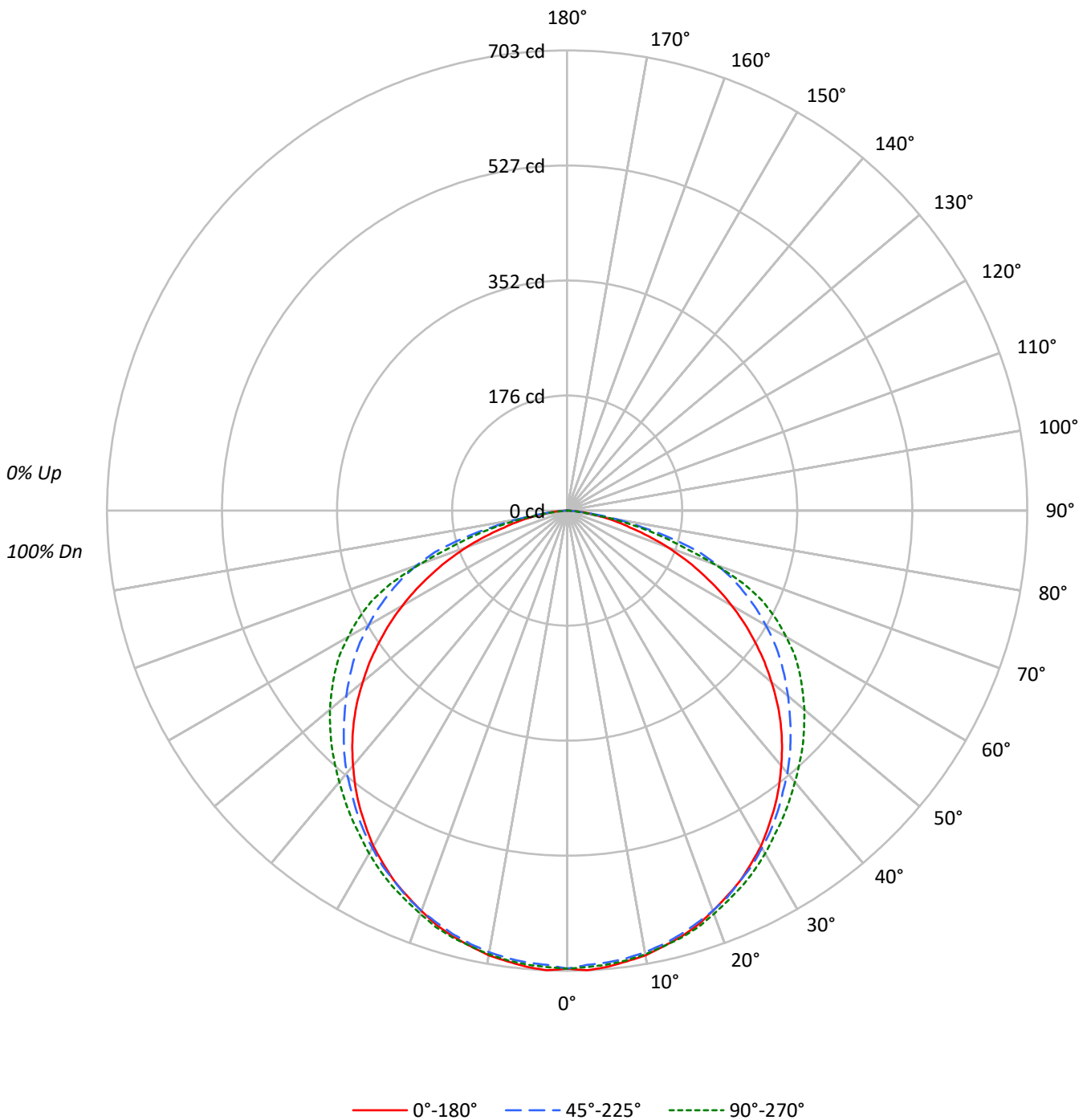
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1883	1883	1883
5°	1890	1872	1881
10°	1885	1872	1881
15°	1877	1867	1881
20°	1863	1863	1877
25°	1855	1855	1879
30°	1840	1850	1880
35°	1816	1843	1886
40°	1787	1839	1902
45°	1756	1837	1936
50°	1707	1843	1980
55°	1645	1867	2035
60°	1562	1887	2080
65°	1443	1911	2108
70°	1283	1924	1886
75°	1035	1730	1510
80°	809	1213	986
85°	553	352	253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.2
10°-20°	190.0	9.1
20°-30°	289.3	13.8
30°-40°	352.4	16.9
40°-50°	373.8	17.9
50°-60°	352.8	16.9
60°-70°	284.9	13.6
70°-80°	154.5	7.4
80°-90°	25.0	1.2
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°	545.5	26.1
0°-40°	897.9	43.0
0°-60°	1624.6	77.8
0°-90°	2089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	700	698	693	698	696	66
15°	674	672	670	675	675	190
25°	625	623	625	631	633	288
35°	553	556	561	572	574	346
45°	462	468	483	501	509	355
55°	351	365	398	424	434	313
65°	227	254	300	325	331	225
75°	100	145	166	150	145	109
85°	18	20	11	10	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	699.7	699.7	699.7	699.7	699.7
2.5°	702.9	699.7	694.8	699.7	698.0
5°	699.7	698.0	693.1	698.0	696.4
7.5°	694.8	694.8	689.9	693.1	693.1
10°	689.9	688.2	685.0	689.9	688.2
12.5°	681.7	680.1	678.5	683.4	681.7
15°	673.6	671.9	670.3	675.2	675.2
17.5°	663.8	662.1	660.5	667.0	667.0
20°	650.7	650.7	650.7	657.3	655.6
22.5°	637.7	637.7	639.3	645.8	644.2
25°	624.6	623.0	624.6	631.2	632.8
27.5°	608.3	610.0	611.6	618.1	619.7
30°	592.0	593.7	595.3	603.4	605.1
32.5°	572.4	575.7	579.0	588.8	588.8
35°	552.9	556.1	561.0	572.4	574.1
37.5°	531.7	534.9	541.5	554.5	557.8
40°	508.8	513.7	523.5	536.6	541.5
42.5°	486.0	492.5	504.0	518.6	525.2
45°	461.5	468.1	482.7	500.7	508.8
47.5°	435.5	443.6	461.5	484.4	490.9
50°	407.7	419.1	440.3	464.8	473.0
52.5°	380.0	393.0	419.1	445.2	453.4
55°	350.6	365.3	397.9	424.0	433.8
57.5°	321.3	337.6	375.1	402.8	412.6
60°	290.3	309.9	350.6	378.4	386.5
62.5°	259.3	282.1	326.2	353.9	360.4
65°	226.7	254.4	300.1	324.6	331.1
67.5°	195.7	228.3	274.0	291.9	291.9
70°	163.1	199.0	244.6	249.5	239.7
72.5°	130.5	171.2	212.0	194.1	185.9
75°	99.5	145.2	166.4	150.0	145.2
77.5°	75.0	117.4	117.4	107.6	104.4
80°	52.2	89.7	78.3	68.5	63.6
82.5°	34.2	50.6	40.8	32.6	27.7
85°	17.9	19.6	11.4	9.8	8.2
87.5°	6.5	3.3	1.6	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)