

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: P275745

Luminaire Tested: **14CZ2-39-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275745
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: 14CZ2-39-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2469.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

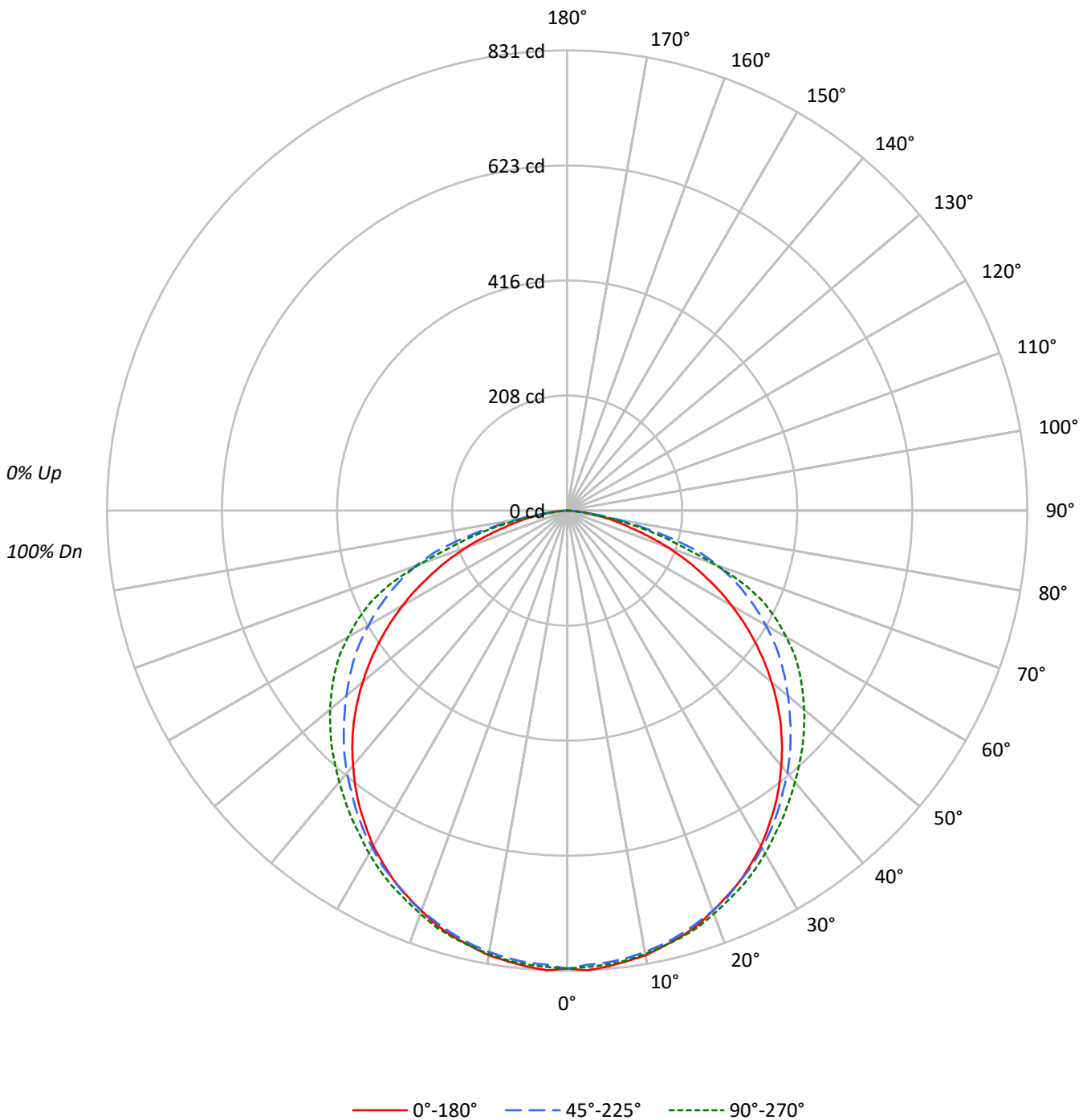
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2225	2225	2225
5°	2234	2213	2223
10°	2228	2212	2223
15°	2218	2207	2223
20°	2202	2202	2219
25°	2192	2192	2221
30°	2174	2186	2222
35°	2146	2178	2229
40°	2113	2174	2248
45°	2076	2171	2289
50°	2017	2179	2340
55°	1944	2206	2405
60°	1847	2230	2458
65°	1706	2259	2492
70°	1517	2275	2230
75°	1223	2044	1784
80°	956	1433	1165
85°	655	417	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.2
10°-20°	224.6	9.1
20°-30°	341.9	13.8
30°-40°	416.5	16.9
40°-50°	441.9	17.9
50°-60°	417.0	16.9
60°-70°	336.7	13.6
70°-80°	182.7	7.4
80°-90°	29.6	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°	644.8	26.1
0°-40°	1061.2	43.0
0°-60°	1920.1	77.8
0°-90°	2469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	827	825	819	825	823	79
15°	796	794	792	798	798	225
25°	738	736	738	746	748	340
35°	653	657	663	677	678	409
45°	546	553	571	592	601	420
55°	414	432	470	501	513	370
65°	268	301	355	384	391	265
75°	118	172	197	177	172	128
85°	21	23	14	12	10	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.9	826.9	826.9	826.9	826.9
2.5°	830.8	826.9	821.1	826.9	825.0
5°	826.9	825.0	819.2	825.0	823.1
7.5°	821.1	821.1	815.4	819.2	819.2
10°	815.4	813.4	809.6	815.4	813.4
12.5°	805.7	803.8	801.9	807.7	805.7
15°	796.1	794.2	792.2	798.0	798.0
17.5°	784.5	782.6	780.7	788.4	788.4
20°	769.1	769.1	769.1	776.8	774.9
22.5°	753.7	753.7	755.6	763.3	761.4
25°	738.3	736.3	738.3	746.0	747.9
27.5°	719.0	720.9	722.8	730.6	732.5
30°	699.7	701.6	703.6	713.2	715.1
32.5°	676.6	680.4	684.3	695.9	695.9
35°	653.4	657.3	663.1	676.6	678.5
37.5°	628.4	632.2	640.0	655.4	659.2
40°	601.4	607.2	618.8	634.2	640.0
42.5°	574.4	582.1	595.6	613.0	620.7
45°	545.5	553.2	570.6	591.8	601.4
47.5°	514.7	524.3	545.5	572.5	580.2
50°	481.9	495.4	520.4	549.4	559.0
52.5°	449.1	464.5	495.4	526.2	535.9
55°	414.4	431.8	470.3	501.2	512.7
57.5°	379.7	399.0	443.3	476.1	487.7
60°	343.1	366.2	414.4	447.2	456.8
62.5°	306.5	333.5	385.5	418.3	426.0
65°	267.9	300.7	354.7	383.6	391.3
67.5°	231.3	269.9	323.8	345.0	345.0
70°	192.8	235.2	289.1	294.9	283.4
72.5°	154.2	202.4	250.6	229.4	219.7
75°	117.6	171.6	196.6	177.3	171.6
77.5°	88.7	138.8	138.8	127.2	123.4
80°	61.7	106.0	92.5	81.0	75.2
82.5°	40.5	59.8	48.2	38.6	32.8
85°	21.2	23.1	13.5	11.6	9.6
87.5°	7.7	3.9	1.9	3.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)