

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: P275433

Luminaire Tested: **14CZ2-35-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275433
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: 14CZ2-35-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2712.0 lumens
Efficiency: N/A
Efficacy: 96.6 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

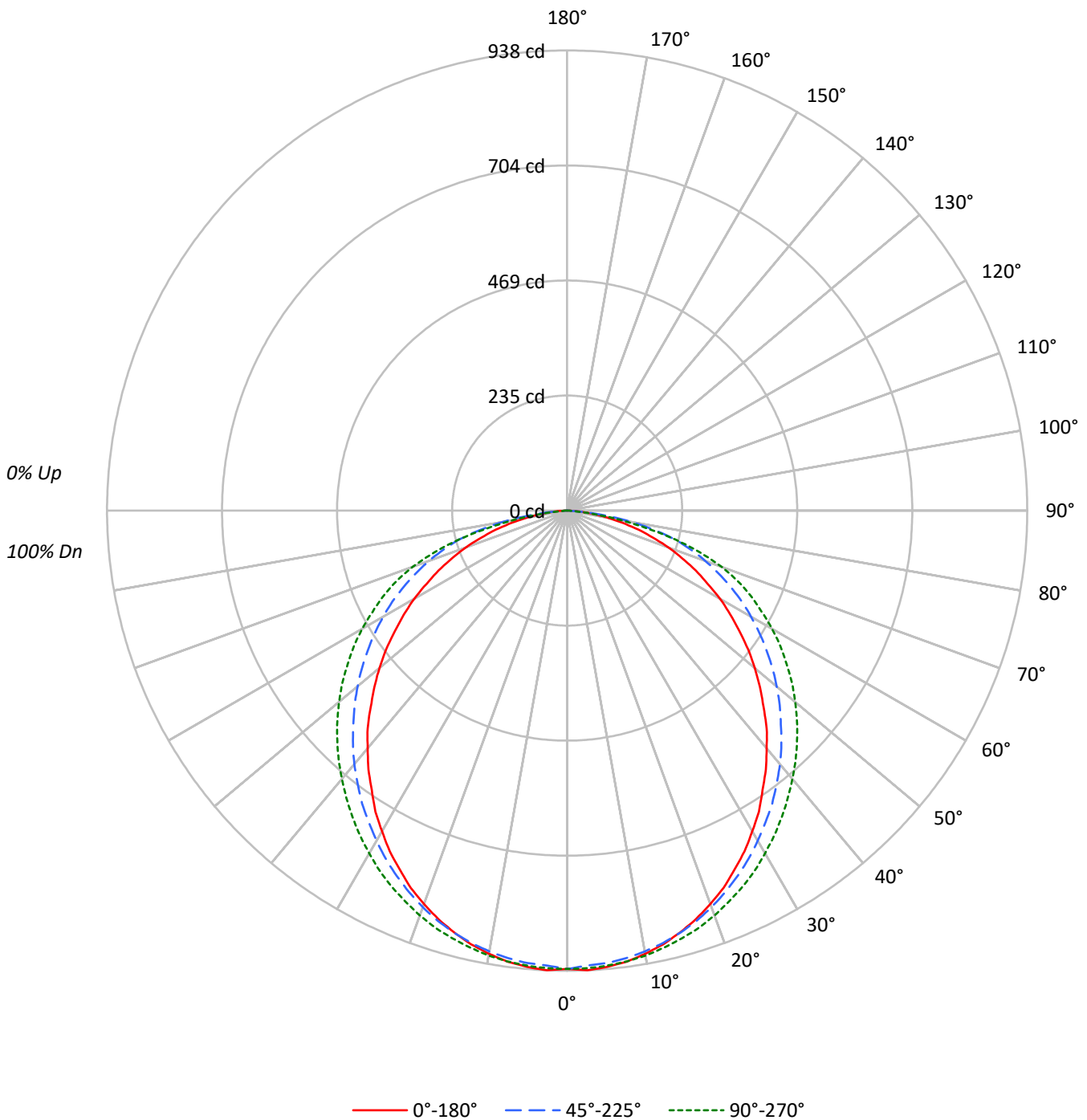
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2514	2514	2514
5°	2522	2501	2516
10°	2507	2493	2517
15°	2480	2482	2515
20°	2444	2464	2515
25°	2397	2440	2512
30°	2345	2415	2507
35°	2282	2394	2505
40°	2222	2371	2509
45°	2154	2345	2522
50°	2091	2334	2539
55°	2011	2327	2562
60°	1940	2330	2597
65°	1841	2337	2637
70°	1727	2355	2636
75°	1566	2377	2383
80°	1283	2052	1697
85°	951	969	392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.3
10°-20°	252.5	9.3
20°-30°	380.4	14.0
30°-40°	456.5	16.8
40°-50°	475.8	17.5
50°-60°	440.5	16.2
60°-70°	355.9	13.1
70°-80°	217.0	8.0
80°-90°	44.8	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°	721.4	26.6
0°-40°	1177.9	43.4
0°-60°	2094.3	77.2
0°-90°	2712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	934	931	926	932	931	89
15°	890	891	891	903	903	251
25°	807	812	822	842	846	372
35°	695	706	729	755	763	435
45°	566	583	616	651	663	438
55°	429	451	496	535	546	384
65°	289	318	367	404	414	286
75°	151	184	229	232	229	158
85°	31	46	31	18	13	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	934.3	934.3	934.3	934.3	934.3
2.5°	937.9	934.9	928.2	934.9	933.7
5°	933.7	931.3	925.8	932.5	931.3
7.5°	927.6	925.2	920.4	928.2	927.0
10°	917.4	916.2	912.5	921.6	921.0
12.5°	905.3	904.7	902.8	913.1	912.5
15°	890.1	890.8	890.8	902.8	902.8
17.5°	873.2	874.4	876.8	890.1	892.0
20°	853.3	855.7	860.5	875.6	878.1
22.5°	832.7	834.5	841.8	859.9	862.3
25°	807.3	812.1	821.8	842.4	846.0
27.5°	783.1	787.3	800.6	821.8	827.9
30°	754.7	761.3	777.1	800.0	806.7
32.5°	727.5	734.7	752.9	779.5	785.5
35°	694.8	705.7	728.7	755.3	762.6
37.5°	665.2	675.5	701.5	730.5	739.0
40°	632.5	645.2	674.9	705.7	714.2
42.5°	602.3	614.4	646.4	677.9	689.4
45°	566.0	583.0	616.2	650.7	662.8
47.5°	532.8	549.7	587.8	624.7	635.6
50°	499.5	517.6	557.6	595.6	606.5
52.5°	465.0	484.4	527.3	565.4	578.1
55°	428.7	451.1	495.9	534.6	546.1
57.5°	394.3	417.3	465.0	504.3	515.8
60°	360.4	384.0	433.0	470.5	482.6
62.5°	322.9	350.7	401.5	438.4	447.5
65°	289.1	317.5	367.1	404.0	414.2
67.5°	253.4	284.2	333.8	367.7	377.3
70°	219.5	251.6	299.3	330.8	335.0
72.5°	183.2	215.9	264.3	284.2	284.2
75°	150.6	183.8	228.6	232.2	229.2
77.5°	114.9	151.8	180.8	173.6	166.3
80°	82.8	119.1	132.4	119.1	109.5
82.5°	55.6	86.5	79.8	63.5	56.2
85°	30.8	46.0	31.4	17.5	12.7
87.5°	11.5	10.3	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)