

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: P258974

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2720.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

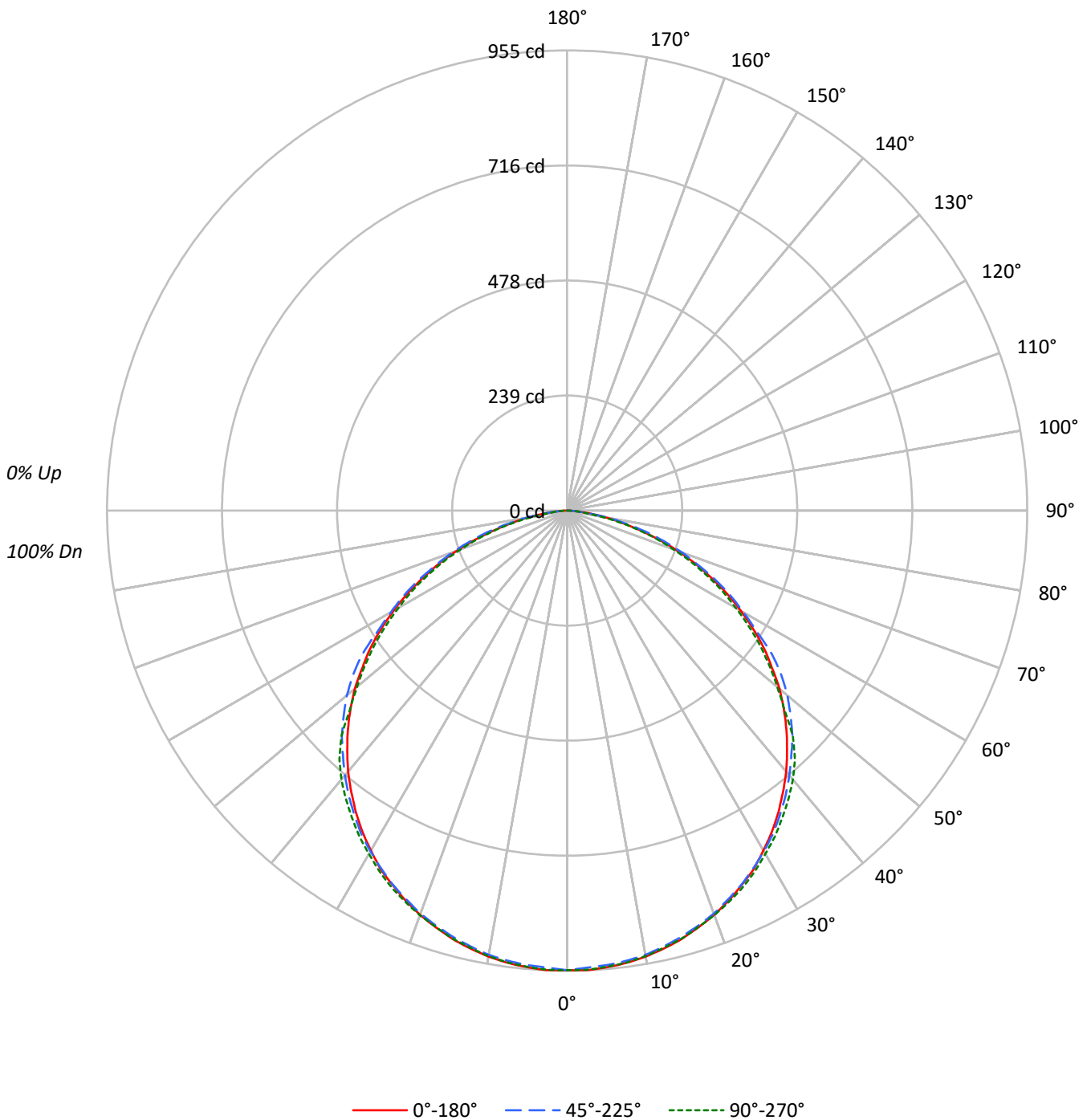
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2567	2567	2567
5°	2570	2558	2567
10°	2568	2558	2565
15°	2564	2551	2561
20°	2556	2549	2559
25°	2545	2543	2561
30°	2531	2537	2556
35°	2510	2531	2557
40°	2485	2519	2560
45°	2449	2517	2520
50°	2409	2498	2383
55°	2342	2433	2296
60°	2243	2276	2176
65°	2100	2157	2043
70°	1911	1988	1848
75°	1595	1743	1567
80°	1265	1333	1085
85°	821	710	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	3.3
10°-20°	259.4	9.5
20°-30°	395.9	14.6
30°-40°	482.7	17.7
40°-50°	505.5	18.6
50°-60°	449.7	16.5
60°-70°	331.8	12.2
70°-80°	171.4	6.3
80°-90°	33.3	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°	745.6	27.4
0°-40°	1228.4	45.2
0°-60°	2183.5	80.3
0°-90°	2720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	951	950	947	950	950	90
15°	920	919	916	919	919	260
25°	857	857	856	863	863	395
35°	764	765	770	779	778	478
45°	644	648	661	668	662	496
55°	499	510	519	496	489	445
65°	330	353	339	327	321	327
75°	153	169	168	154	151	166
85°	27	29	23	21	20	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.9	953.9	953.9	953.9	953.9
2.5°	954.8	953.9	949.5	953.9	953.9
5°	951.3	950.4	946.8	950.4	950.4
7.5°	946.8	945.9	942.4	945.9	945.9
10°	939.7	938.8	936.2	939.7	938.8
12.5°	930.9	930.9	926.4	930.9	929.1
15°	920.2	919.3	915.8	919.3	919.3
17.5°	906.9	906.0	903.4	907.8	906.0
20°	892.7	891.9	890.1	894.5	893.6
22.5°	875.9	875.9	873.2	878.6	878.6
25°	857.3	857.3	856.4	862.6	862.6
27.5°	838.7	836.9	836.9	843.1	844.0
30°	814.7	814.7	816.5	823.6	822.7
32.5°	790.8	791.7	795.2	801.4	802.3
35°	764.2	765.1	770.4	779.3	778.4
37.5°	735.8	738.5	744.7	754.4	754.4
40°	707.5	709.2	717.2	727.8	728.7
42.5°	675.5	680.0	688.8	701.3	699.5
45°	643.6	648.1	661.4	667.6	662.2
47.5°	609.9	615.3	628.6	629.4	611.7
50°	575.4	581.6	596.6	578.9	569.2
52.5°	535.5	547.0	560.3	535.5	529.3
55°	499.1	509.8	518.6	496.5	489.4
57.5°	458.3	472.5	466.3	455.7	446.8
60°	416.7	431.7	422.9	412.2	404.3
62.5°	374.1	391.0	382.1	371.5	364.4
65°	329.8	352.8	338.7	327.1	320.9
67.5°	288.1	310.3	293.4	284.6	278.4
70°	242.9	261.5	252.7	241.1	234.9
72.5°	198.6	212.8	210.1	197.7	193.3
75°	153.4	169.3	167.6	154.3	150.7
77.5°	115.2	130.3	125.0	114.4	109.9
80°	81.6	91.3	86.0	73.6	70.0
82.5°	49.6	57.6	48.8	41.7	38.1
85°	26.6	29.3	23.0	21.3	20.4
87.5°	9.8	9.8	9.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)