

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: P259062

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-SQP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2642.0 lumens
Efficiency: N/A
Efficacy: 83.3 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

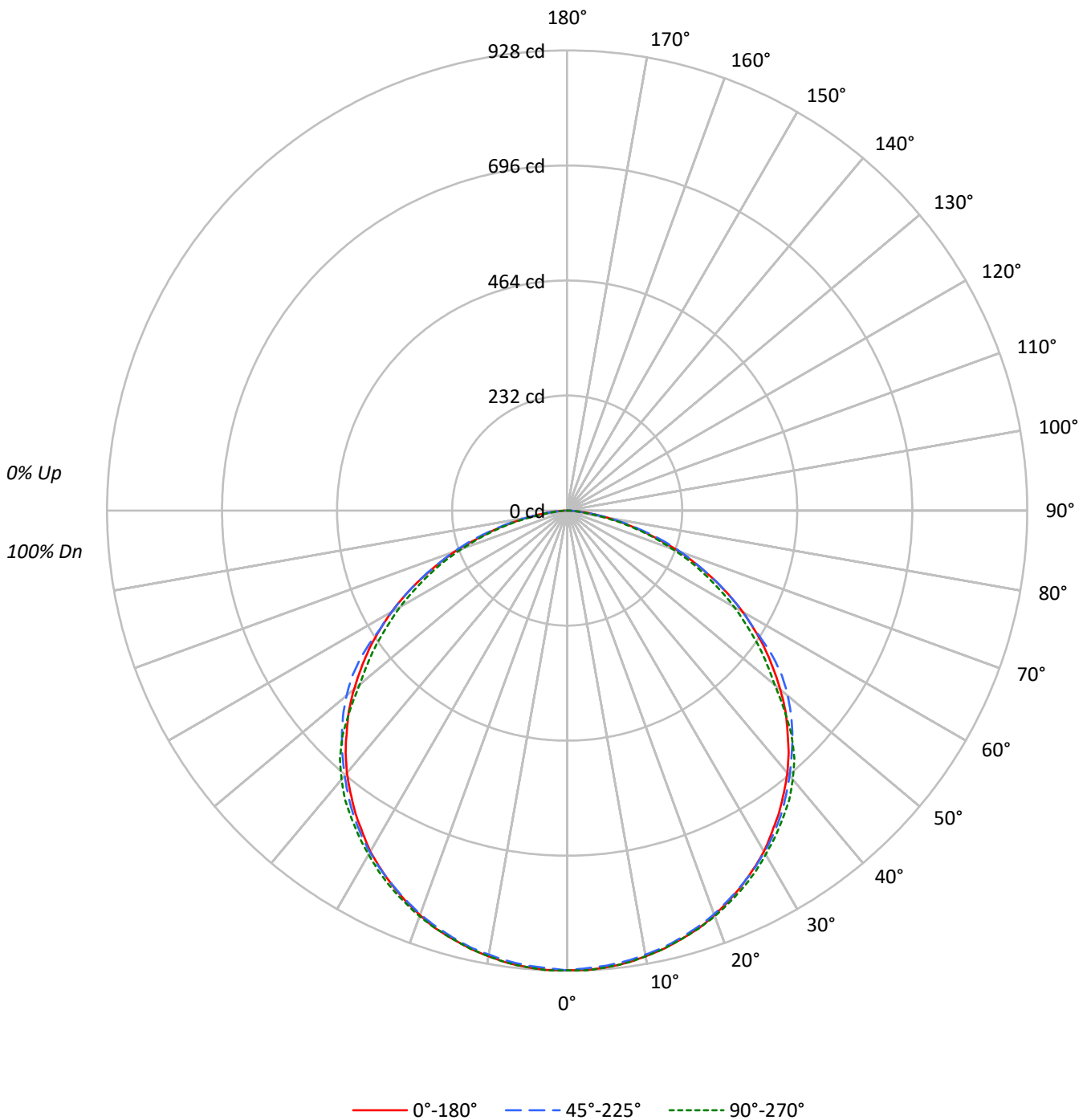
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	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	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2495	2495	2495
5°	2497	2488	2497
10°	2494	2484	2494
15°	2491	2483	2491
20°	2486	2481	2493
25°	2477	2474	2492
30°	2467	2472	2489
35°	2446	2466	2490
40°	2427	2452	2487
45°	2391	2445	2435
50°	2349	2431	2285
55°	2288	2355	2200
60°	2201	2196	2095
65°	2063	2074	1960
70°	1894	1915	1774
75°	1591	1666	1517
80°	1261	1289	1068
85°	827	719	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.3
10°-20°	252.4	9.6
20°-30°	385.3	14.6
30°-40°	470.1	17.8
40°-50°	491.6	18.6
50°-60°	435.2	16.5
60°-70°	320.5	12.1
70°-80°	165.9	6.3
80°-90°	33.0	1.3
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°	725.5	27.5
0°-40°	1195.6	45.3
0°-60°	2122.5	80.3
0°-90°	2642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	924	924	921	924	924	88
15°	894	894	891	895	894	253
25°	834	834	833	838	839	384
35°	745	746	751	758	758	466
45°	628	634	642	648	640	485
55°	488	498	502	476	469	435
65°	324	344	326	313	308	321
75°	153	164	160	150	146	163
85°	27	29	23	21	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.1	927.1	927.1	927.1	927.1
2.5°	927.1	927.1	923.5	927.1	928.0
5°	924.4	924.4	920.9	924.4	924.4
7.5°	920.0	919.1	916.4	920.0	920.0
10°	912.8	912.8	909.2	913.7	912.8
12.5°	904.8	903.9	902.1	905.6	904.8
15°	894.0	894.0	891.3	894.9	894.0
17.5°	883.3	882.4	879.7	883.3	883.3
20°	868.1	867.2	866.3	869.9	870.7
22.5°	852.0	851.1	850.2	855.5	855.5
25°	834.1	834.1	833.2	838.5	839.4
27.5°	814.4	814.4	815.3	822.4	821.5
30°	793.8	793.8	795.6	800.9	800.9
32.5°	768.7	770.5	774.1	780.4	780.4
35°	744.6	746.4	750.8	758.0	758.0
37.5°	717.7	720.4	724.9	733.8	735.6
40°	690.9	692.7	698.0	707.9	707.9
42.5°	661.3	663.1	670.3	680.1	678.3
45°	628.2	633.6	642.5	647.9	639.9
47.5°	596.9	600.5	613.0	606.7	593.3
50°	561.1	568.3	580.8	558.4	545.9
52.5°	524.4	532.5	545.9	514.6	507.4
55°	487.7	497.6	502.0	476.1	468.9
57.5°	448.3	459.1	450.1	434.9	427.8
60°	409.0	421.5	408.1	393.8	389.3
62.5°	367.8	382.1	366.9	354.4	348.1
65°	324.0	343.6	325.7	313.2	307.8
67.5°	281.0	301.6	282.8	272.1	268.5
70°	240.7	252.4	243.4	232.7	225.5
72.5°	192.4	204.0	202.2	190.6	186.1
75°	153.0	163.8	160.2	150.3	145.9
77.5°	113.7	125.3	121.7	110.1	108.3
80°	81.4	89.5	83.2	72.5	68.9
82.5°	51.0	57.3	49.2	41.2	39.4
85°	26.8	28.6	23.3	20.6	19.7
87.5°	8.9	9.8	9.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)