

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: P258581

Luminaire Tested: **14CZ-LD5-35-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-UNV-L93050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2750.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

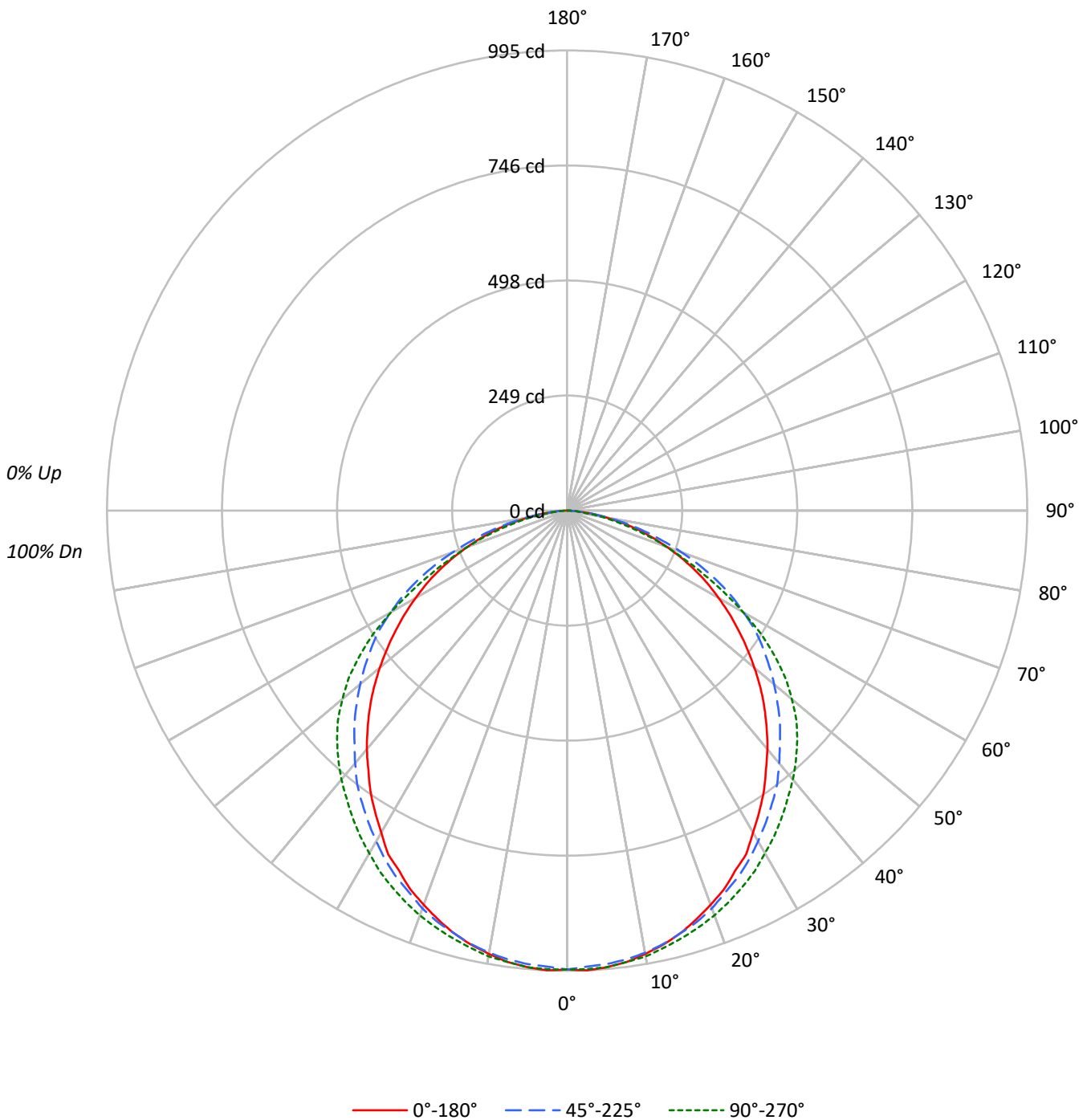
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2671	2671	2671
5°	2677	2659	2677
10°	2660	2652	2675
15°	2636	2636	2666
20°	2597	2621	2667
25°	2552	2596	2665
30°	2498	2565	2658
35°	2436	2539	2659
40°	2367	2505	2667
45°	2296	2477	2678
50°	2213	2446	2656
55°	2124	2423	2570
60°	2035	2371	2364
65°	1942	2271	2072
70°	1803	2069	1792
75°	1635	1804	1481
80°	1303	1429	1093
85°	920	797	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.4
10°-20°	268.2	9.8
20°-30°	404.4	14.7
30°-40°	484.8	17.6
40°-50°	503.1	18.3
50°-60°	453.8	16.5
60°-70°	331.0	12.0
70°-80°	173.7	6.3
80°-90°	37.0	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°	766.6	27.9
0°-40°	1251.4	45.5
0°-60°	2208.2	80.3
0°-90°	2750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	991	988	984	991	991	94
15°	946	946	946	957	957	267
25°	860	864	874	893	898	397
35°	742	750	773	801	809	463
45°	603	616	651	690	704	465
55°	453	469	516	550	548	405
65°	305	323	357	343	325	301
75°	157	179	174	150	142	165
85°	30	37	26	22	20	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.4	992.4	992.4	992.4	992.4
2.5°	995.1	992.4	987.0	992.4	992.4
5°	991.0	988.3	984.3	991.0	991.0
7.5°	984.3	981.6	978.8	985.6	984.3
10°	973.4	972.1	970.7	978.8	978.8
12.5°	961.2	961.2	959.9	969.3	968.0
15°	946.3	946.3	946.3	957.1	957.1
17.5°	927.3	930.0	932.7	944.9	944.9
20°	907.0	909.7	915.1	930.0	931.4
22.5°	886.6	888.0	893.4	911.1	915.1
25°	859.5	863.6	874.4	893.4	897.5
27.5°	837.8	839.2	851.4	873.1	878.5
30°	804.0	813.4	825.6	850.0	855.5
32.5°	772.8	780.9	799.9	825.6	833.8
35°	741.6	749.7	772.8	801.2	809.4
37.5°	706.3	718.5	745.7	774.1	783.6
40°	673.8	684.6	713.1	748.4	759.2
42.5°	638.6	649.4	680.6	719.9	732.1
45°	603.3	615.5	650.8	690.1	703.6
47.5°	566.7	580.3	616.9	660.2	672.4
50°	528.7	543.6	584.3	629.1	634.5
52.5°	490.8	507.0	550.4	589.7	595.2
55°	452.8	469.1	516.5	550.4	547.7
57.5°	416.2	433.8	482.6	500.3	497.6
60°	378.2	397.2	440.6	448.7	439.3
62.5°	343.0	360.6	401.3	394.5	382.3
65°	305.0	322.7	356.6	343.0	325.4
67.5°	267.1	288.8	310.5	287.4	273.9
70°	229.1	253.5	263.0	240.0	227.8
72.5°	192.5	218.3	215.6	192.5	184.4
75°	157.3	179.0	173.5	150.5	142.4
77.5°	119.3	143.7	131.5	112.5	105.7
80°	84.1	105.7	92.2	75.9	70.5
82.5°	55.6	70.5	56.9	44.7	40.7
85°	29.8	36.6	25.8	21.7	20.3
87.5°	12.2	10.8	9.5	9.5	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)