

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: P258578

Luminaire Tested: **14CZ-LD5-29-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258578
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-LD5-29-UNV-L93050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2699.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

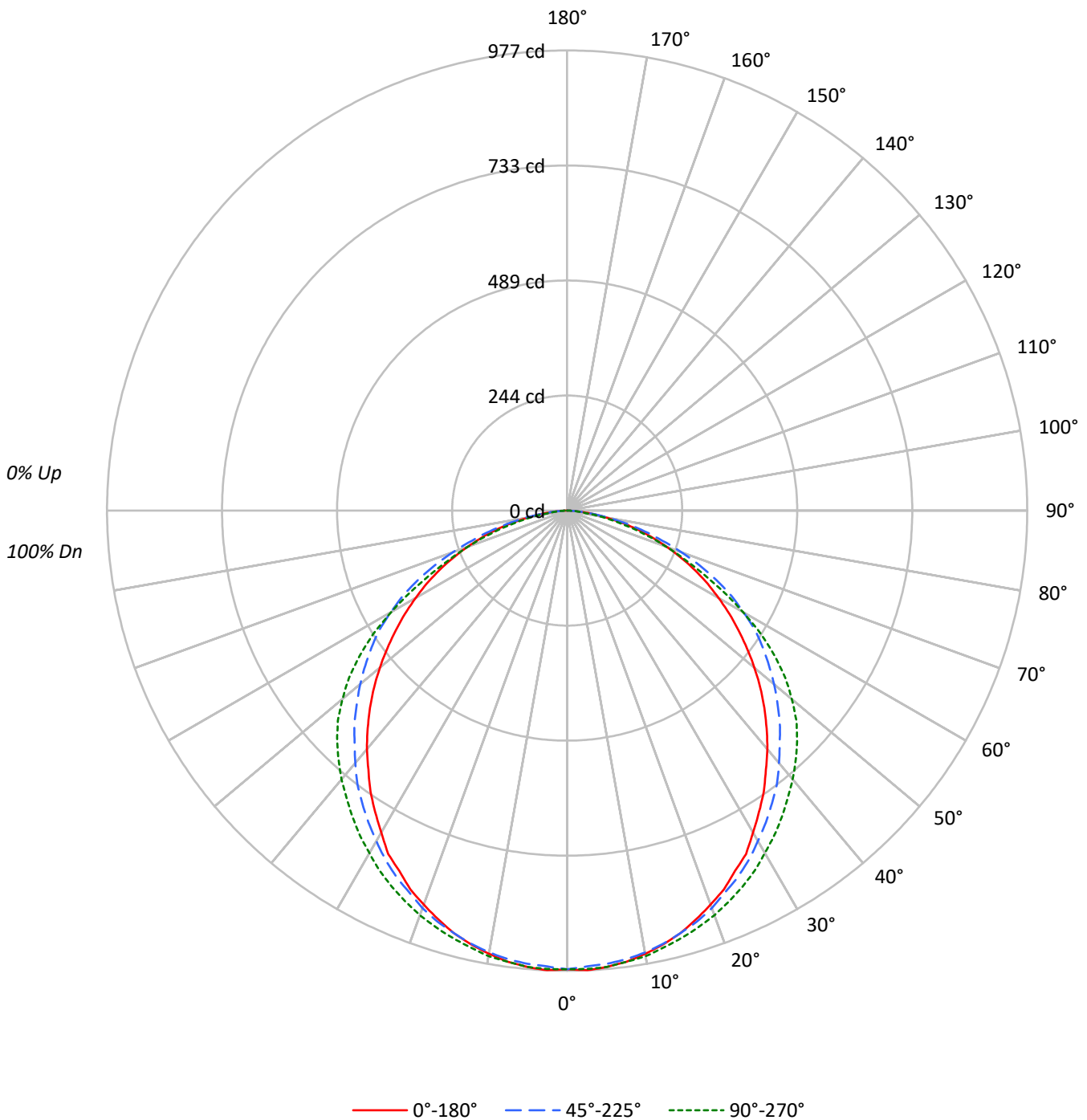
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2621	2621	2621
5°	2628	2609	2628
10°	2611	2603	2625
15°	2588	2588	2617
20°	2549	2572	2618
25°	2505	2548	2616
30°	2452	2518	2609
35°	2391	2491	2610
40°	2323	2459	2617
45°	2253	2431	2628
50°	2172	2401	2607
55°	2085	2379	2522
60°	1998	2327	2320
65°	1906	2228	2033
70°	1769	2031	1758
75°	1604	1771	1452
80°	1278	1402	1072
85°	905	781	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	3.4
10°-20°	263.3	9.8
20°-30°	396.9	14.7
30°-40°	475.8	17.6
40°-50°	493.8	18.3
50°-60°	445.4	16.5
60°-70°	324.9	12.0
70°-80°	170.4	6.3
80°-90°	36.4	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°	752.4	27.9
0°-40°	1228.2	45.5
0°-60°	2167.3	80.3
0°-90°	2699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	973	970	966	973	973	92
15°	929	929	929	939	939	262
25°	844	848	858	877	881	389
35°	728	736	758	786	794	455
45°	592	604	639	677	691	456
55°	444	460	507	540	538	398
65°	299	317	350	337	319	296
75°	154	176	170	148	140	162
85°	29	36	25	21	20	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	974.0	974.0	974.0	974.0	974.0
2.5°	976.7	974.0	968.7	974.0	974.0
5°	972.7	970.0	966.0	972.7	972.7
7.5°	966.0	963.3	960.7	967.3	966.0
10°	955.4	954.0	952.7	960.7	960.7
12.5°	943.4	943.4	942.1	951.4	950.0
15°	928.8	928.8	928.8	939.4	939.4
17.5°	910.1	912.8	915.4	927.4	927.4
20°	890.2	892.8	898.1	912.8	914.1
22.5°	870.2	871.5	876.9	894.2	898.1
25°	843.6	847.6	858.2	876.9	880.9
27.5°	822.3	823.6	835.6	856.9	862.2
30°	789.0	798.4	810.3	834.3	839.6
32.5°	758.4	766.4	785.0	810.3	818.3
35°	727.8	735.8	758.4	786.4	794.4
37.5°	693.2	705.2	731.8	759.8	769.1
40°	661.3	671.9	699.9	734.5	745.1
42.5°	626.7	637.4	668.0	706.5	718.5
45°	592.1	604.1	638.7	677.3	690.6
47.5°	556.2	569.5	605.4	648.0	660.0
50°	518.9	533.6	573.5	617.4	622.7
52.5°	481.7	497.6	540.2	578.8	584.1
55°	444.4	460.4	507.0	540.2	537.6
57.5°	408.5	425.8	473.7	491.0	488.3
60°	371.2	389.9	432.4	440.4	431.1
62.5°	336.6	353.9	393.9	387.2	375.2
65°	299.4	316.7	349.9	336.6	319.3
67.5°	262.1	283.4	304.7	282.1	268.8
70°	224.9	248.8	258.1	235.5	223.5
72.5°	188.9	214.2	211.6	188.9	181.0
75°	154.3	175.6	170.3	147.7	139.7
77.5°	117.1	141.0	129.1	110.4	103.8
80°	82.5	103.8	90.5	74.5	69.2
82.5°	54.6	69.2	55.9	43.9	39.9
85°	29.3	35.9	25.3	21.3	20.0
87.5°	12.0	10.6	9.3	9.3	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)