

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: P259418

Luminaire Tested: **22CZ-LD5-29-S-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-S-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2669.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

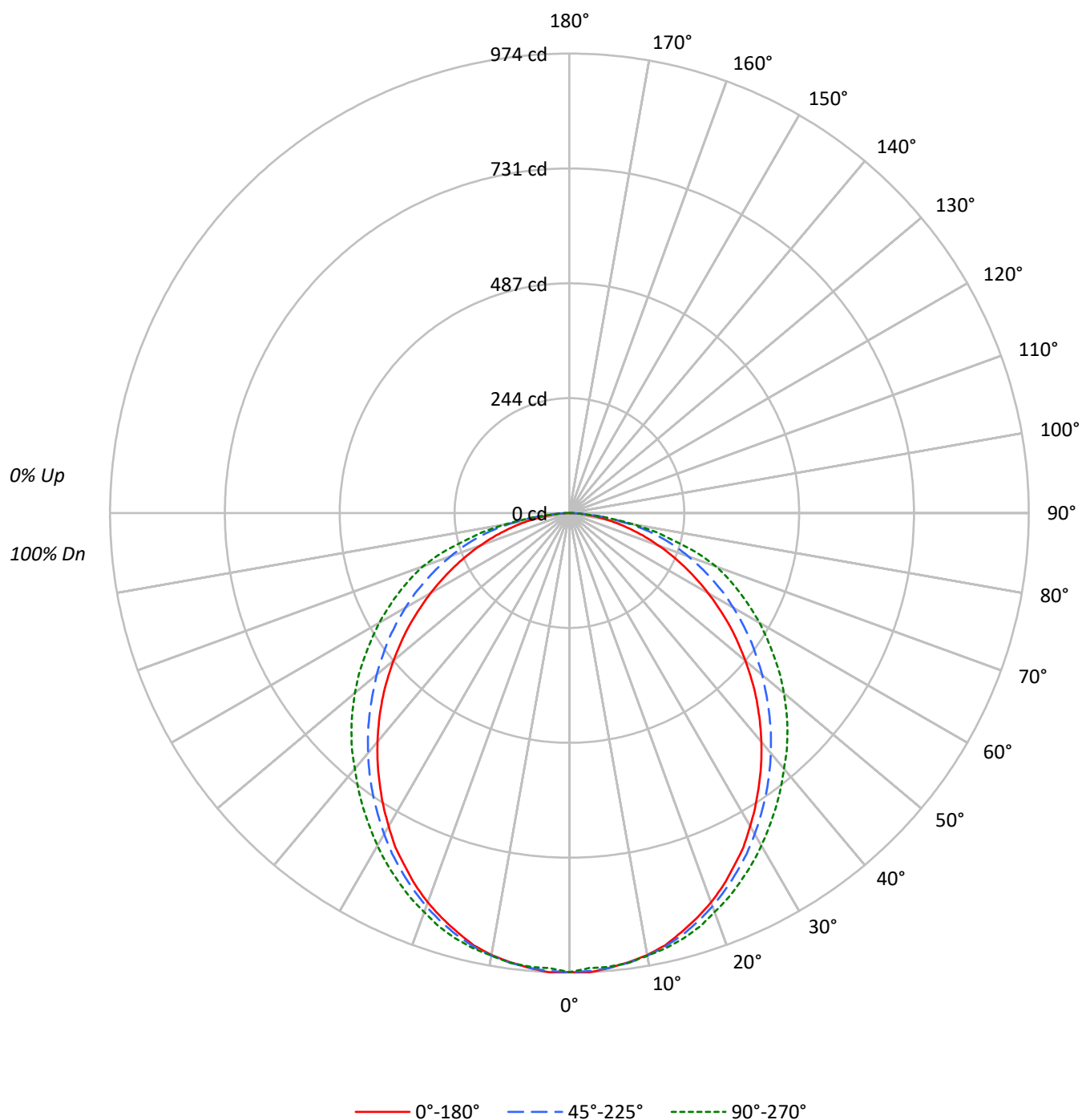
Input Watts (W): 21.373632
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	91	88		83
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	54	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	34	29		27
10	53	40	32	26	52	39	32	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2618	2618	2618
5°	2615	2615	2608
10°	2599	2603	2603
15°	2561	2579	2600
20°	2515	2540	2577
25°	2451	2493	2554
30°	2382	2442	2529
35°	2303	2388	2506
40°	2225	2333	2486
45°	2137	2278	2488
50°	2039	2233	2485
55°	1943	2195	2484
60°	1828	2160	2505
65°	1714	2131	2539
70°	1584	2108	2602
75°	1426	2093	2412
80°	1252	1946	2106
85°	1028	1463	1306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	3.4
10°-20°	261.0	9.8
20°-30°	387.7	14.5
30°-40°	456.3	17.1
40°-50°	465.2	17.4
50°-60°	419.6	15.7
60°-70°	330.5	12.4
70°-80°	203.9	7.6
80°-90°	52.9	2.0
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°	740.6	27.7
0°-40°	1196.9	44.8
0°-60°	2081.7	78.0
0°-90°	2669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	968	969	968	967	965	92
15°	919	923	926	931	933	259
25°	826	831	840	854	860	380
35°	701	709	727	750	763	439
45°	562	570	599	635	654	433
55°	414	428	468	510	529	370
65°	269	288	335	377	399	267
75°	137	160	201	224	232	146
85°	33	42	47	45	42	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.0	973.0	973.0	973.0	973.0
2.5°	974.3	974.3	971.7	969.2	965.3
5°	967.9	969.2	967.9	966.6	965.3
7.5°	960.2	961.5	961.5	961.5	961.5
10°	951.2	952.5	952.5	952.5	952.5
12.5°	938.4	939.7	941.0	942.2	944.8
15°	919.2	923.0	925.6	930.7	933.3
17.5°	899.9	903.8	907.6	914.0	919.2
20°	878.1	880.7	887.1	894.8	899.9
22.5°	853.8	857.6	864.0	874.3	882.0
25°	825.6	830.7	839.7	853.8	860.2
27.5°	798.7	802.5	814.0	829.4	838.4
30°	766.6	771.7	785.8	805.1	814.0
32.5°	734.6	741.0	756.4	778.2	788.4
35°	701.2	708.9	726.9	749.9	762.8
37.5°	667.9	675.6	696.1	721.7	735.8
40°	633.3	641.0	664.1	692.3	707.6
42.5°	597.4	606.4	632.0	664.1	682.0
45°	561.5	570.5	598.7	634.6	653.8
47.5°	524.3	534.6	565.3	605.1	624.3
50°	487.1	498.7	533.3	574.3	593.5
52.5°	450.0	462.8	500.0	542.3	562.8
55°	414.1	428.2	467.9	510.2	529.4
57.5°	375.6	392.3	434.6	475.6	497.4
60°	339.7	357.7	401.3	442.3	465.4
62.5°	303.8	323.1	369.2	410.2	432.0
65°	269.2	288.4	334.6	376.9	398.7
67.5°	234.6	256.4	301.3	343.6	365.4
70°	201.3	224.3	267.9	309.0	330.7
72.5°	169.2	192.3	235.9	274.3	287.2
75°	137.2	160.2	201.3	224.3	232.0
77.5°	107.7	129.5	165.4	179.5	189.7
80°	80.8	100.0	125.6	134.6	135.9
82.5°	55.1	71.8	87.2	88.5	87.2
85°	33.3	42.3	47.4	44.9	42.3
87.5°	15.4	16.7	15.4	10.3	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)