

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: P259250

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x2 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: 2616.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

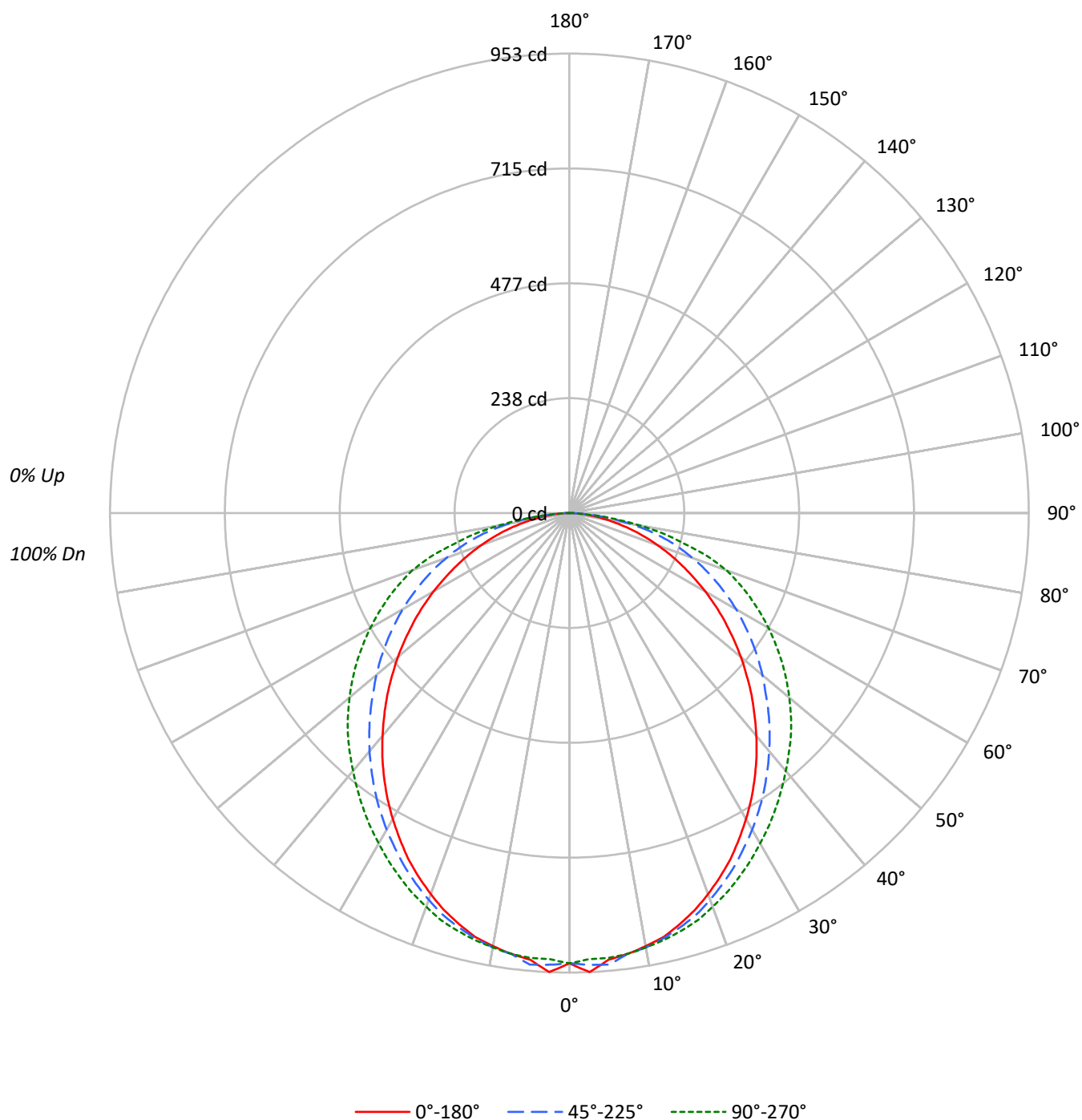
Input Watts (W): 21.373632
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2513	2513	2513
5°	2512	2539	2502
10°	2492	2499	2499
15°	2460	2477	2498
20°	2408	2444	2488
25°	2350	2402	2474
30°	2277	2356	2459
35°	2202	2311	2453
40°	2118	2266	2453
45°	2033	2222	2474
50°	1944	2189	2493
55°	1850	2167	2525
60°	1753	2150	2567
65°	1644	2138	2632
70°	1531	2132	2722
75°	1389	2129	2580
80°	1203	1971	2287
85°	1022	1491	1454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	3.4
10°-20°	250.9	9.6
20°-30°	373.2	14.3
30°-40°	441.3	16.9
40°-50°	453.6	17.3
50°-60°	414.5	15.8
60°-70°	331.6	12.7
70°-80°	208.1	8.0
80°-90°	54.2	2.1
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°	712.6	27.2
0°-40°	1153.9	44.1
0°-60°	2022.1	77.3
0°-90°	2616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	930	930	940	934	926	88
15°	883	884	889	894	897	249
25°	791	796	809	823	833	364
35°	670	679	704	730	747	419
45°	534	548	584	627	650	412
55°	394	413	462	513	538	353
65°	258	281	336	387	413	256
75°	134	159	205	235	248	142
85°	33	42	48	47	47	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.7	933.7	933.7	933.7	933.7
2.5°	952.8	949.0	937.6	929.9	926.1
5°	929.9	929.9	940.1	933.7	926.1
7.5°	922.3	922.3	922.3	941.4	922.3
10°	912.1	913.4	914.7	922.3	914.7
12.5°	900.7	900.7	903.2	905.8	907.0
15°	882.9	884.1	889.2	894.3	896.8
17.5°	863.8	867.6	873.9	880.3	885.4
20°	840.9	846.0	853.6	863.8	868.9
22.5°	816.7	821.8	832.0	843.4	852.3
25°	791.3	796.3	809.1	823.1	833.2
27.5°	762.0	768.4	783.6	802.7	812.9
30°	732.7	740.4	758.2	779.8	791.3
32.5°	702.2	711.1	731.5	755.6	769.6
35°	670.4	679.3	703.5	730.2	746.7
37.5°	637.3	647.5	674.2	704.8	722.6
40°	603.0	614.4	645.0	678.0	698.4
42.5°	568.6	581.4	614.4	653.9	674.2
45°	534.3	548.3	583.9	627.2	650.1
47.5°	498.7	515.2	552.1	600.4	623.3
50°	464.3	480.9	522.8	572.5	595.4
52.5°	428.7	447.8	492.3	543.2	567.4
55°	394.4	413.4	461.8	512.7	538.1
57.5°	360.0	379.1	430.0	482.1	507.6
60°	325.7	346.0	399.4	450.3	477.0
62.5°	291.3	312.9	367.6	419.8	445.2
65°	258.2	281.1	335.8	386.7	413.4
67.5°	226.4	250.6	304.0	353.7	380.4
70°	194.6	218.8	271.0	319.3	346.0
72.5°	164.1	188.3	239.2	282.4	302.8
75°	133.6	159.0	204.8	235.3	248.1
77.5°	104.3	129.8	169.2	189.5	203.5
80°	77.6	99.2	127.2	142.5	147.6
82.5°	53.4	71.2	89.0	92.9	95.4
85°	33.1	42.0	48.3	47.1	47.1
87.5°	15.3	16.5	14.0	10.2	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)