

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: P259382

Luminaire Tested: **22CZ-LD5-24-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259382
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-LD5-24-S-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2486.0 lumens
Efficiency: N/A
Efficacy: 141.4 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

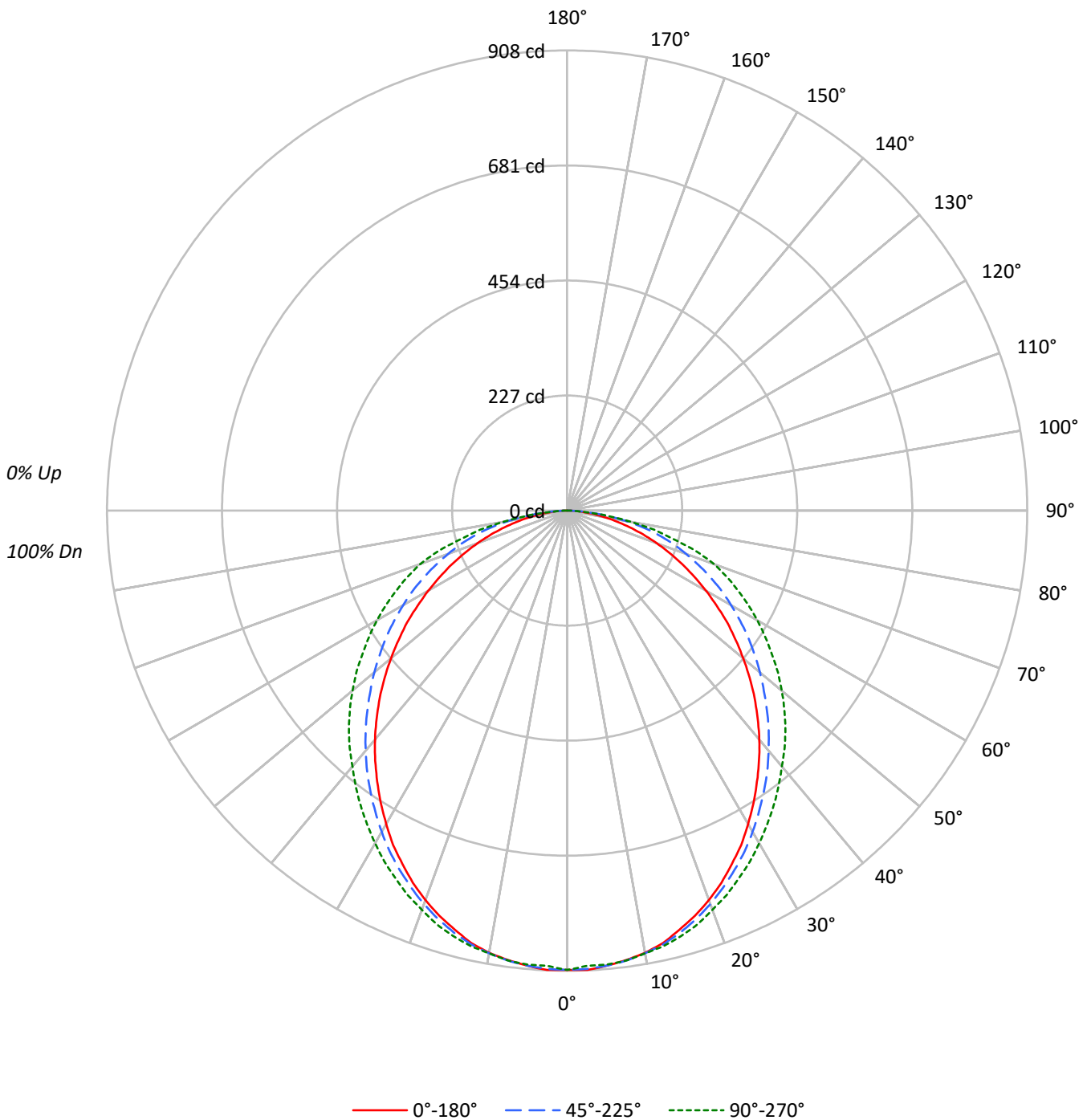
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2439	2439	2439
5°	2435	2435	2429
10°	2421	2424	2424
15°	2385	2402	2422
20°	2342	2366	2400
25°	2283	2322	2379
30°	2219	2275	2356
35°	2146	2224	2334
40°	2072	2173	2315
45°	1990	2122	2318
50°	1899	2079	2315
55°	1810	2045	2313
60°	1703	2011	2333
65°	1597	1985	2365
70°	1475	1964	2424
75°	1329	1949	2247
80°	1165	1813	1962
85°	957	1365	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	3.4
10°-20°	243.1	9.8
20°-30°	361.1	14.5
30°-40°	425.0	17.1
40°-50°	433.3	17.4
50°-60°	390.8	15.7
60°-70°	307.8	12.4
70°-80°	189.9	7.6
80°-90°	49.3	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°	689.8	27.7
0°-40°	1114.8	44.8
0°-60°	1939.0	78.0
0°-90°	2486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	902	903	902	900	899	86
15°	856	860	862	867	869	241
25°	769	774	782	795	801	354
35°	653	660	677	698	710	409
45°	523	531	558	591	609	403
55°	386	399	436	475	493	344
65°	251	269	312	351	371	248
75°	128	149	188	209	216	136
85°	31	39	44	42	39	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	906.3	906.3	906.3	906.3	906.3
2.5°	907.5	907.5	905.1	902.7	899.1
5°	901.5	902.7	901.5	900.3	899.1
7.5°	894.4	895.5	895.5	895.5	895.5
10°	886.0	887.2	887.2	887.2	887.2
12.5°	874.1	875.2	876.4	877.6	880.0
15°	856.1	859.7	862.1	866.9	869.3
17.5°	838.2	841.8	845.4	851.4	856.1
20°	817.9	820.3	826.3	833.5	838.2
22.5°	795.2	798.8	804.8	814.4	821.5
25°	769.0	773.8	782.1	795.2	801.2
27.5°	743.9	747.5	758.2	772.6	780.9
30°	714.0	718.8	732.0	749.9	758.2
32.5°	684.2	690.2	704.5	724.8	734.3
35°	653.2	660.3	677.0	698.5	710.5
37.5°	622.1	629.3	648.4	672.3	685.4
40°	589.9	597.0	618.5	644.8	659.1
42.5°	556.4	564.8	588.7	618.5	635.2
45°	523.0	531.4	557.6	591.1	609.0
47.5°	488.4	497.9	526.6	563.6	581.5
50°	453.7	464.5	496.7	534.9	552.9
52.5°	419.1	431.1	465.7	505.1	524.2
55°	385.7	398.8	435.8	475.2	493.1
57.5°	349.9	365.4	404.8	443.0	463.3
60°	316.4	333.1	373.7	412.0	433.4
62.5°	283.0	300.9	343.9	382.1	402.4
65°	250.8	268.7	311.7	351.1	371.4
67.5°	218.5	238.8	280.6	320.0	340.3
70°	187.5	209.0	249.6	287.8	308.1
72.5°	157.6	179.1	219.7	255.5	267.5
75°	127.8	149.3	187.5	209.0	216.1
77.5°	100.3	120.6	154.0	167.2	176.7
80°	75.2	93.1	117.0	125.4	126.6
82.5°	51.3	66.9	81.2	82.4	81.2
85°	31.0	39.4	44.2	41.8	39.4
87.5°	14.3	15.5	14.3	9.6	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)