

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: P259383

Luminaire Tested: **22CZ-LD5-24-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259383
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2610.0 lumens
Efficiency: N/A
Efficacy: 145.4 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

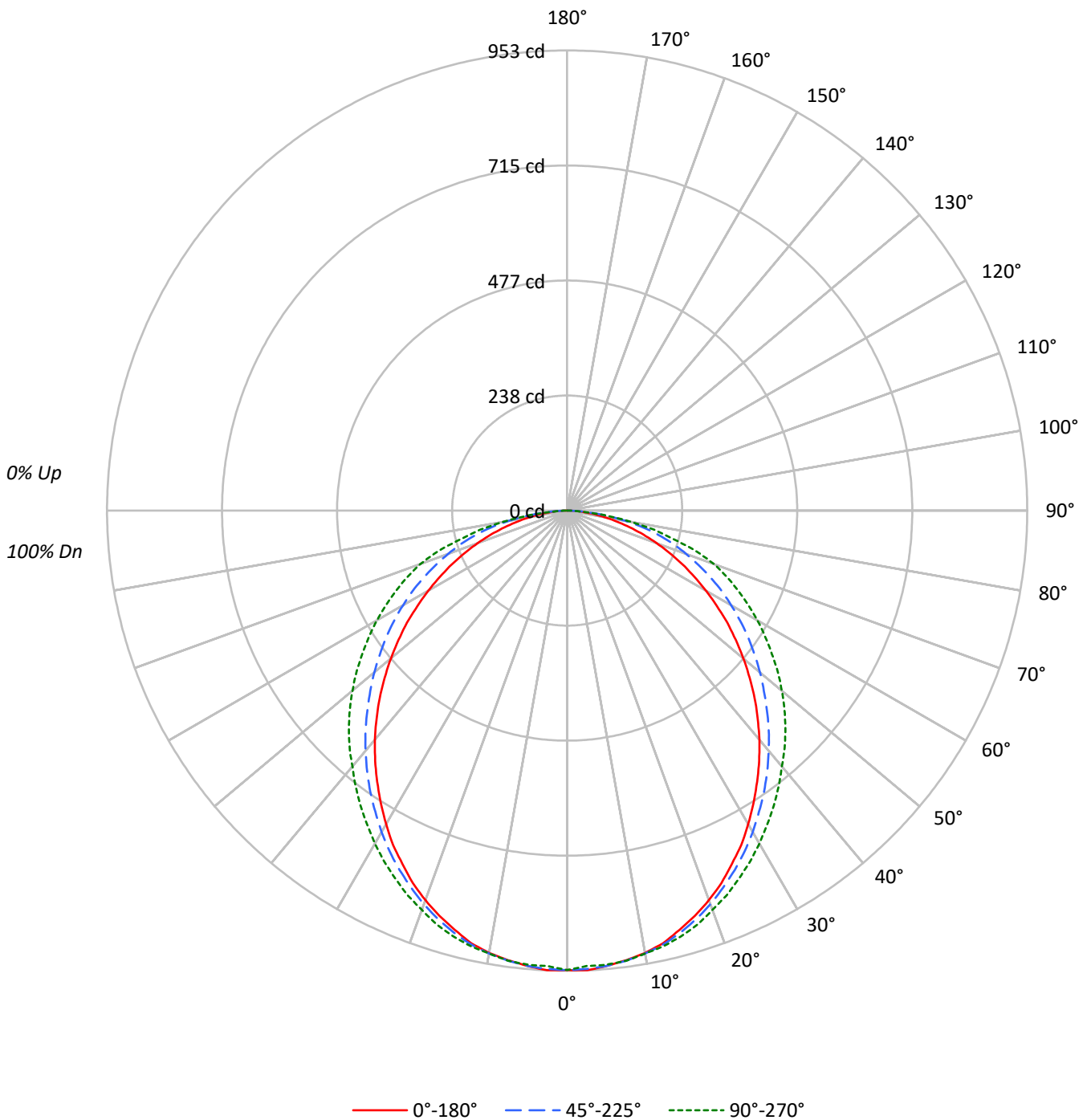
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2560	2560	2560
5°	2557	2557	2550
10°	2542	2545	2545
15°	2504	2522	2542
20°	2459	2484	2520
25°	2397	2438	2498
30°	2330	2388	2474
35°	2253	2335	2450
40°	2175	2281	2431
45°	2090	2228	2433
50°	1994	2183	2430
55°	1900	2147	2429
60°	1788	2112	2449
65°	1677	2083	2483
70°	1548	2061	2544
75°	1394	2046	2359
80°	1224	1905	2060
85°	1007	1433	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	3.4
10°-20°	255.2	9.8
20°-30°	379.1	14.5
30°-40°	446.2	17.1
40°-50°	454.9	17.4
50°-60°	410.3	15.7
60°-70°	323.2	12.4
70°-80°	199.4	7.6
80°-90°	51.7	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°	724.2	27.7
0°-40°	1170.5	44.8
0°-60°	2035.7	78.0
0°-90°	2610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	946	948	946	945	944	90
15°	899	903	905	910	913	253
25°	807	812	821	835	841	372
35°	686	693	711	733	746	429
45°	549	558	585	620	639	423
55°	405	419	458	499	518	361
65°	263	282	327	369	390	261
75°	134	157	197	219	227	143
85°	33	41	46	44	41	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.5	951.5	951.5	951.5	951.5
2.5°	952.8	952.8	950.2	947.7	944.0
5°	946.5	947.7	946.5	945.2	944.0
7.5°	939.0	940.2	940.2	940.2	940.2
10°	930.2	931.4	931.4	931.4	931.4
12.5°	917.7	918.9	920.2	921.4	923.9
15°	898.8	902.6	905.1	910.1	912.6
17.5°	880.0	883.8	887.6	893.8	898.8
20°	858.7	861.2	867.5	875.0	880.0
22.5°	834.9	838.7	844.9	855.0	862.5
25°	807.3	812.3	821.1	834.9	841.2
27.5°	781.0	784.8	796.1	811.1	819.9
30°	749.7	754.7	768.5	787.3	796.1
32.5°	718.3	724.6	739.6	760.9	771.0
35°	685.7	693.3	710.8	733.4	745.9
37.5°	653.1	660.7	680.7	705.8	719.6
40°	619.3	626.8	649.4	677.0	692.0
42.5°	584.2	593.0	618.0	649.4	666.9
45°	549.1	557.9	585.4	620.5	639.3
47.5°	512.7	522.8	552.8	591.7	610.5
50°	476.4	487.7	521.5	561.6	580.4
52.5°	440.0	452.6	488.9	530.3	550.3
55°	404.9	418.7	457.6	498.9	517.7
57.5°	367.3	383.6	425.0	465.1	486.4
60°	332.2	349.8	392.4	432.5	455.1
62.5°	297.1	315.9	361.0	401.2	422.5
65°	263.3	282.1	327.2	368.6	389.9
67.5°	229.4	250.7	294.6	336.0	357.3
70°	196.8	219.4	262.0	302.1	323.4
72.5°	165.5	188.0	230.7	268.3	280.8
75°	134.1	156.7	196.8	219.4	226.9
77.5°	105.3	126.6	161.7	175.5	185.5
80°	79.0	97.8	122.9	131.6	132.9
82.5°	53.9	70.2	85.2	86.5	85.2
85°	32.6	41.4	46.4	43.9	41.4
87.5°	15.0	16.3	15.0	10.0	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)