

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: P259456

Luminaire Tested: **22CZ-LD5-29-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259456
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-L82765-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: 2840.0 lumens
Efficiency: N/A
Efficacy: 135.7 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

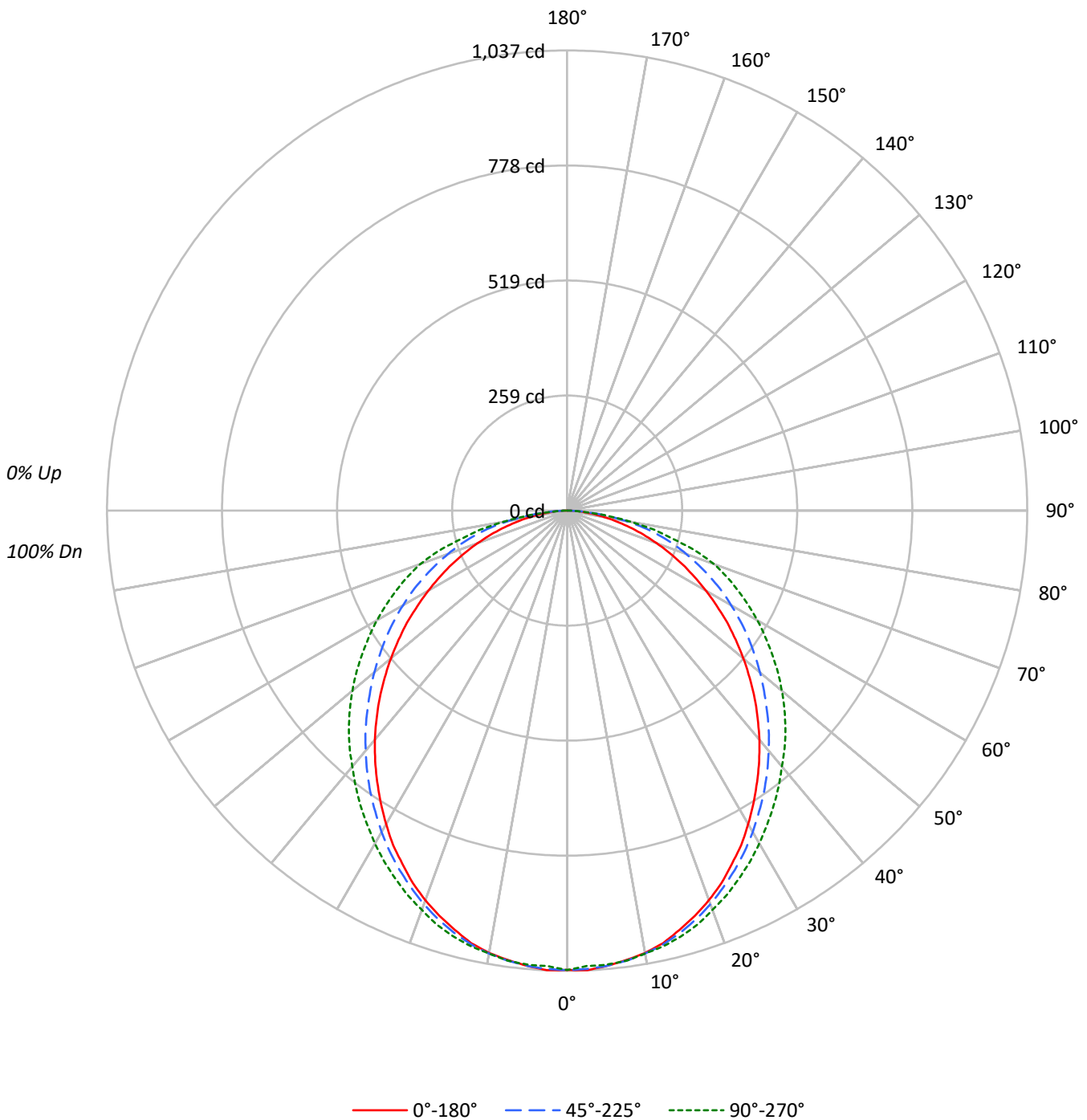
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2786	2786	2786
5°	2782	2782	2775
10°	2766	2769	2769
15°	2725	2744	2767
20°	2676	2703	2742
25°	2608	2653	2718
30°	2535	2598	2692
35°	2451	2541	2666
40°	2367	2482	2645
45°	2274	2424	2648
50°	2170	2376	2644
55°	2067	2336	2643
60°	1946	2298	2665
65°	1824	2267	2701
70°	1685	2243	2769
75°	1518	2227	2567
80°	1331	2072	2241
85°	1096	1559	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	3.4
10°-20°	277.7	9.8
20°-30°	412.5	14.5
30°-40°	485.6	17.1
40°-50°	495.0	17.4
50°-60°	446.5	15.7
60°-70°	351.7	12.4
70°-80°	216.9	7.6
80°-90°	56.3	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°	788.0	27.7
0°-40°	1273.6	44.8
0°-60°	2215.1	78.0
0°-90°	2840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1030	1031	1030	1028	1027	98
15°	978	982	985	990	993	276
25°	878	884	894	908	915	405
35°	746	754	773	798	812	467
45°	598	607	637	675	696	461
55°	441	456	498	543	563	393
65°	286	307	356	401	424	284
75°	146	170	214	239	247	156
85°	36	45	50	48	45	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1035.3	1035.3	1035.3	1035.3	1035.3
2.5°	1036.7	1036.7	1034.0	1031.3	1027.2
5°	1029.9	1031.3	1029.9	1028.5	1027.2
7.5°	1021.7	1023.1	1023.1	1023.1	1023.1
10°	1012.2	1013.5	1013.5	1013.5	1013.5
12.5°	998.5	999.9	1001.2	1002.6	1005.3
15°	978.1	982.1	984.9	990.3	993.1
17.5°	957.6	961.7	965.8	972.6	978.1
20°	934.4	937.1	944.0	952.1	957.6
22.5°	908.5	912.6	919.4	930.3	938.5
25°	878.5	883.9	893.5	908.5	915.3
27.5°	849.8	853.9	866.2	882.6	892.1
30°	815.7	821.2	836.2	856.7	866.2
32.5°	781.6	788.4	804.8	828.0	838.9
35°	746.2	754.3	773.4	798.0	811.6
37.5°	710.7	718.9	740.7	768.0	783.0
40°	673.9	682.0	706.6	736.6	753.0
42.5°	635.7	645.2	672.5	706.6	725.7
45°	597.5	607.0	637.0	675.2	695.7
47.5°	557.9	568.8	601.6	643.9	664.3
50°	518.4	530.6	567.5	611.1	631.6
52.5°	478.8	492.4	532.0	577.0	598.8
55°	440.6	455.6	497.9	542.9	563.4
57.5°	399.7	417.4	462.4	506.1	529.3
60°	361.5	380.6	427.0	470.6	495.2
62.5°	323.3	343.8	392.9	436.5	459.7
65°	286.5	306.9	356.0	401.0	424.2
67.5°	249.6	272.8	320.6	365.6	388.8
70°	214.2	238.7	285.1	328.7	351.9
72.5°	180.1	204.6	251.0	291.9	305.6
75°	146.0	170.5	214.2	238.7	246.9
77.5°	114.6	137.8	176.0	191.0	201.9
80°	85.9	106.4	133.7	143.2	144.6
82.5°	58.7	76.4	92.8	94.1	92.8
85°	35.5	45.0	50.5	47.7	45.0
87.5°	16.4	17.7	16.4	10.9	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)