

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: P259387

Luminaire Tested: **22CZ-LD5-29-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259387
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-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: 2907.0 lumens
Efficiency: N/A
Efficacy: 139.5 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

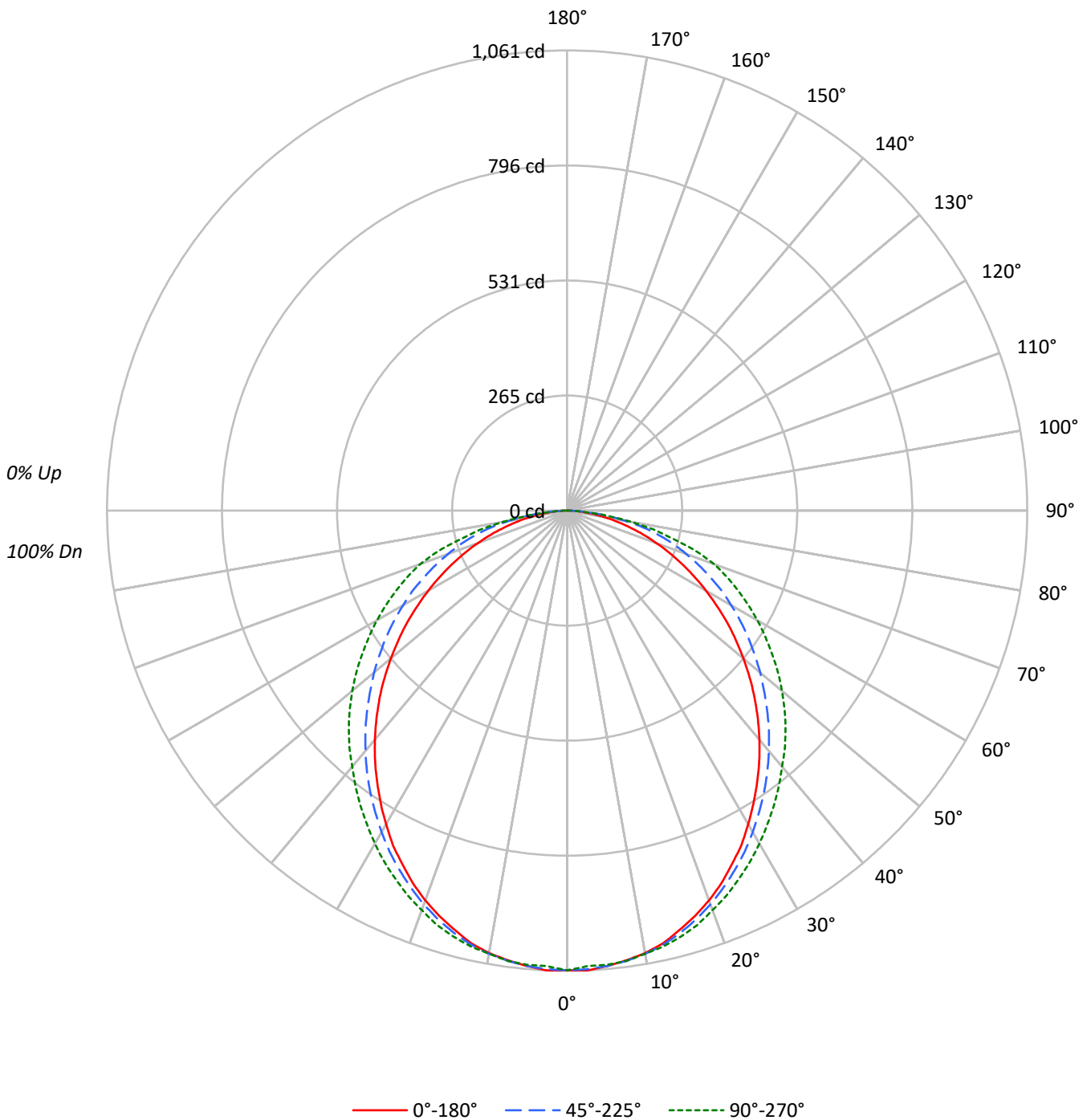
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2852	2852	2852
5°	2848	2848	2840
10°	2831	2835	2835
15°	2789	2808	2832
20°	2739	2767	2807
25°	2670	2716	2782
30°	2595	2660	2755
35°	2509	2601	2729
40°	2423	2541	2707
45°	2328	2482	2710
50°	2221	2432	2707
55°	2116	2391	2706
60°	1991	2352	2728
65°	1867	2320	2765
70°	1725	2296	2834
75°	1553	2279	2627
80°	1364	2120	2294
85°	1121	1596	1423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.4
10°-20°	284.3	9.8
20°-30°	422.3	14.5
30°-40°	497.0	17.1
40°-50°	506.7	17.4
50°-60°	457.0	15.7
60°-70°	360.0	12.4
70°-80°	222.0	7.6
80°-90°	57.6	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°	806.6	27.7
0°-40°	1303.6	44.8
0°-60°	2267.4	78.0
0°-90°	2907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1054	1056	1054	1053	1051	100
15°	1001	1005	1008	1014	1016	282
25°	899	905	915	930	937	414
35°	764	772	792	817	831	478
45°	612	621	652	691	712	471
55°	451	466	510	556	577	402
65°	293	314	364	410	434	290
75°	149	174	219	244	253	159
85°	36	46	52	49	46	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1061.2	1061.2	1058.4	1055.6	1051.4
5°	1054.2	1055.6	1054.2	1052.8	1051.4
7.5°	1045.8	1047.2	1047.2	1047.2	1047.2
10°	1036.0	1037.4	1037.4	1037.4	1037.4
12.5°	1022.1	1023.5	1024.9	1026.3	1029.1
15°	1001.1	1005.3	1008.1	1013.7	1016.5
17.5°	980.2	984.4	988.6	995.5	1001.1
20°	956.4	959.2	966.2	974.6	980.2
22.5°	929.9	934.1	941.1	952.3	960.6
25°	899.2	904.8	914.6	929.9	936.9
27.5°	869.9	874.1	886.6	903.4	913.2
30°	835.0	840.6	855.9	876.9	886.6
32.5°	800.1	807.0	823.8	847.5	858.7
35°	763.8	772.1	791.7	816.8	830.8
37.5°	727.5	735.8	758.2	786.1	801.5
40°	689.8	698.1	723.3	754.0	770.7
42.5°	650.7	660.4	688.4	723.3	742.8
45°	611.6	621.3	652.1	691.2	712.1
47.5°	571.1	582.2	615.8	659.0	680.0
50°	530.6	543.2	580.9	625.5	646.5
52.5°	490.1	504.1	544.5	590.6	613.0
55°	451.0	466.4	509.6	555.7	576.7
57.5°	409.1	427.3	473.3	518.0	541.8
60°	370.0	389.6	437.0	481.7	506.8
62.5°	330.9	351.9	402.1	446.8	470.5
65°	293.2	314.2	364.4	410.5	434.2
67.5°	255.5	279.3	328.1	374.2	397.9
70°	219.2	244.3	291.8	336.5	360.2
72.5°	184.3	209.4	256.9	298.8	312.8
75°	149.4	174.5	219.2	244.3	252.7
77.5°	117.3	141.0	180.1	195.5	206.6
80°	88.0	108.9	136.8	146.6	148.0
82.5°	60.0	78.2	94.9	96.3	94.9
85°	36.3	46.1	51.7	48.9	46.1
87.5°	16.8	18.2	16.8	11.2	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)