

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: P260409

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3077.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

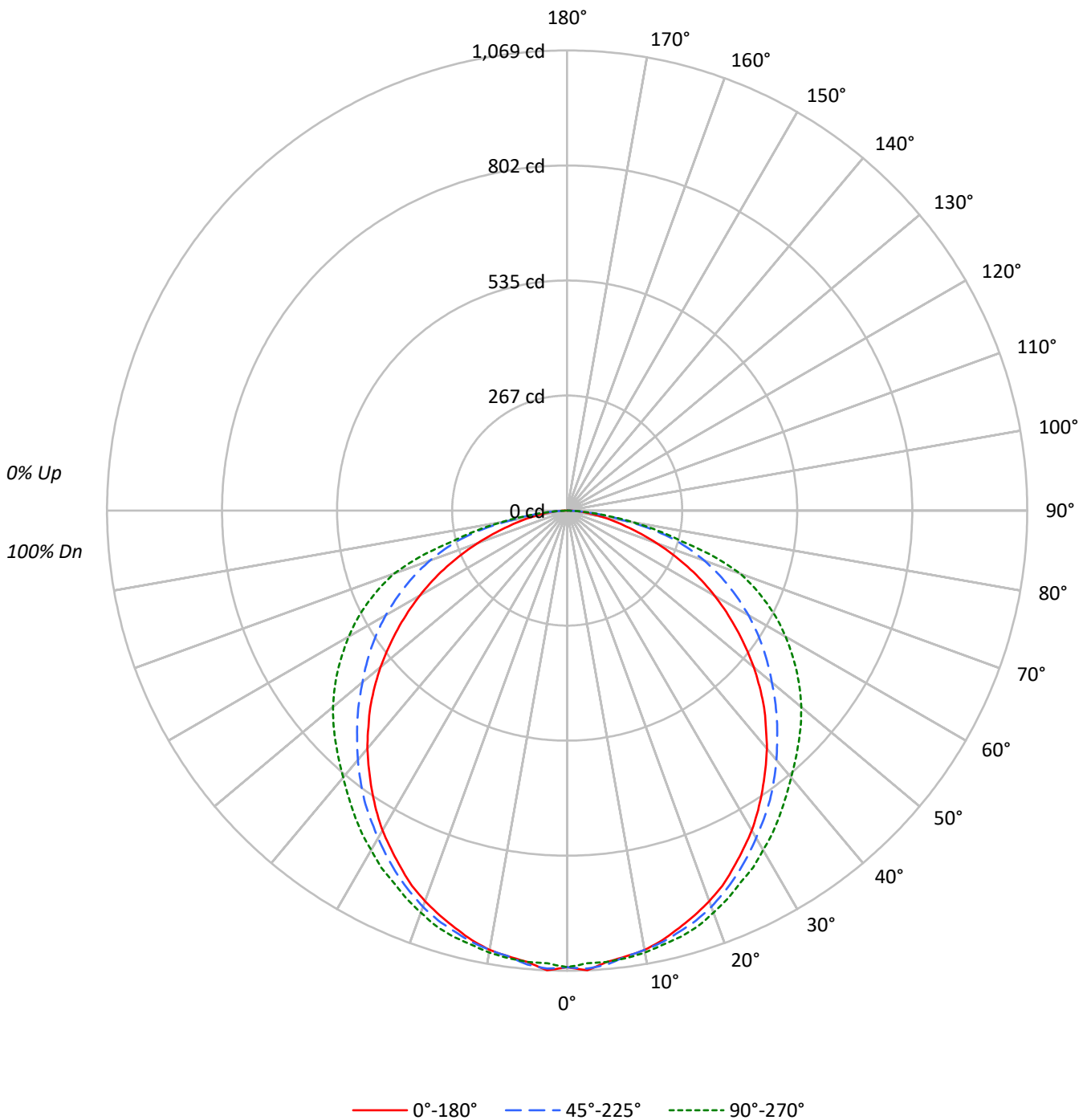
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2855	2855	2855
5°	2844	2860	2844
10°	2832	2832	2849
15°	2797	2820	2854
20°	2765	2806	2846
25°	2716	2770	2831
30°	2666	2729	2830
35°	2599	2699	2832
40°	2537	2658	2843
45°	2462	2624	2895
50°	2369	2599	2972
55°	2255	2608	3055
60°	2129	2620	3155
65°	1963	2635	3268
70°	1740	2665	3367
75°	1476	2658	2869
80°	1226	2137	2390
85°	1065	1442	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.3
10°-20°	285.9	9.3
20°-30°	430.1	14.0
30°-40°	515.4	16.8
40°-50°	537.5	17.5
50°-60°	500.4	16.3
60°-70°	406.4	13.2
70°-80°	244.9	8.0
80°-90°	56.1	1.8
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°	816.2	26.5
0°-40°	1331.7	43.3
0°-60°	2369.6	77.0
0°-90°	3077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1053	1053	1059	1061	1053	100
15°	1004	1008	1012	1018	1024	283
25°	915	921	933	945	953	422
35°	791	801	822	846	862	495
45°	647	659	690	734	761	498
55°	481	501	556	617	651	430
65°	308	341	414	479	513	305
75°	142	189	256	272	276	153
85°	34	43	47	45	45	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.8	1060.8	1060.8	1060.8	1060.8
2.5°	1068.9	1066.9	1064.9	1058.8	1052.7
5°	1052.7	1052.7	1058.8	1060.8	1052.7
7.5°	1044.6	1044.6	1044.6	1052.7	1048.7
10°	1036.5	1036.5	1036.5	1042.6	1042.6
12.5°	1022.3	1024.3	1026.4	1028.4	1032.4
15°	1004.0	1008.1	1012.2	1018.2	1024.3
17.5°	985.8	989.8	998.0	1004.0	1012.2
20°	965.5	969.6	979.7	985.8	993.9
22.5°	943.2	945.2	957.4	965.5	975.6
25°	914.8	920.9	933.0	945.2	953.3
27.5°	886.4	892.5	906.7	922.9	935.1
30°	858.0	864.1	878.3	898.6	910.7
32.5°	825.5	833.7	849.9	874.2	888.4
35°	791.1	801.2	821.5	845.8	862.1
37.5°	756.6	766.7	789.0	819.5	835.7
40°	722.1	732.2	756.6	789.0	809.3
42.5°	683.6	695.7	722.1	760.6	785.0
45°	647.0	659.2	689.6	734.3	760.6
47.5°	606.5	620.7	655.2	705.9	736.3
50°	565.9	582.1	620.7	677.5	709.9
52.5°	523.3	541.6	588.2	647.0	681.5
55°	480.7	501.0	555.8	616.6	651.1
57.5°	438.1	460.4	521.3	584.2	618.7
60°	395.5	419.9	486.8	551.7	586.2
62.5°	352.9	379.3	450.3	515.2	551.7
65°	308.3	340.8	413.8	478.7	513.2
67.5°	263.7	302.2	377.3	440.2	472.6
70°	221.1	263.7	338.7	397.6	428.0
72.5°	180.5	225.1	298.2	348.9	361.0
75°	142.0	188.6	255.6	271.8	275.9
77.5°	109.5	152.1	202.8	206.9	217.0
80°	79.1	115.6	137.9	150.1	154.2
82.5°	54.8	79.1	91.3	93.3	95.3
85°	34.5	42.6	46.7	44.6	44.6
87.5°	18.3	16.2	14.2	10.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)