

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: P393292

Luminaire Tested: **22EN-LD2-30-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393292
Test Lab: INNOVATION CENTER (G2)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-30-UNV-L83050-W2A-1-U (3500K)
Description: 2X2 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2999.4 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

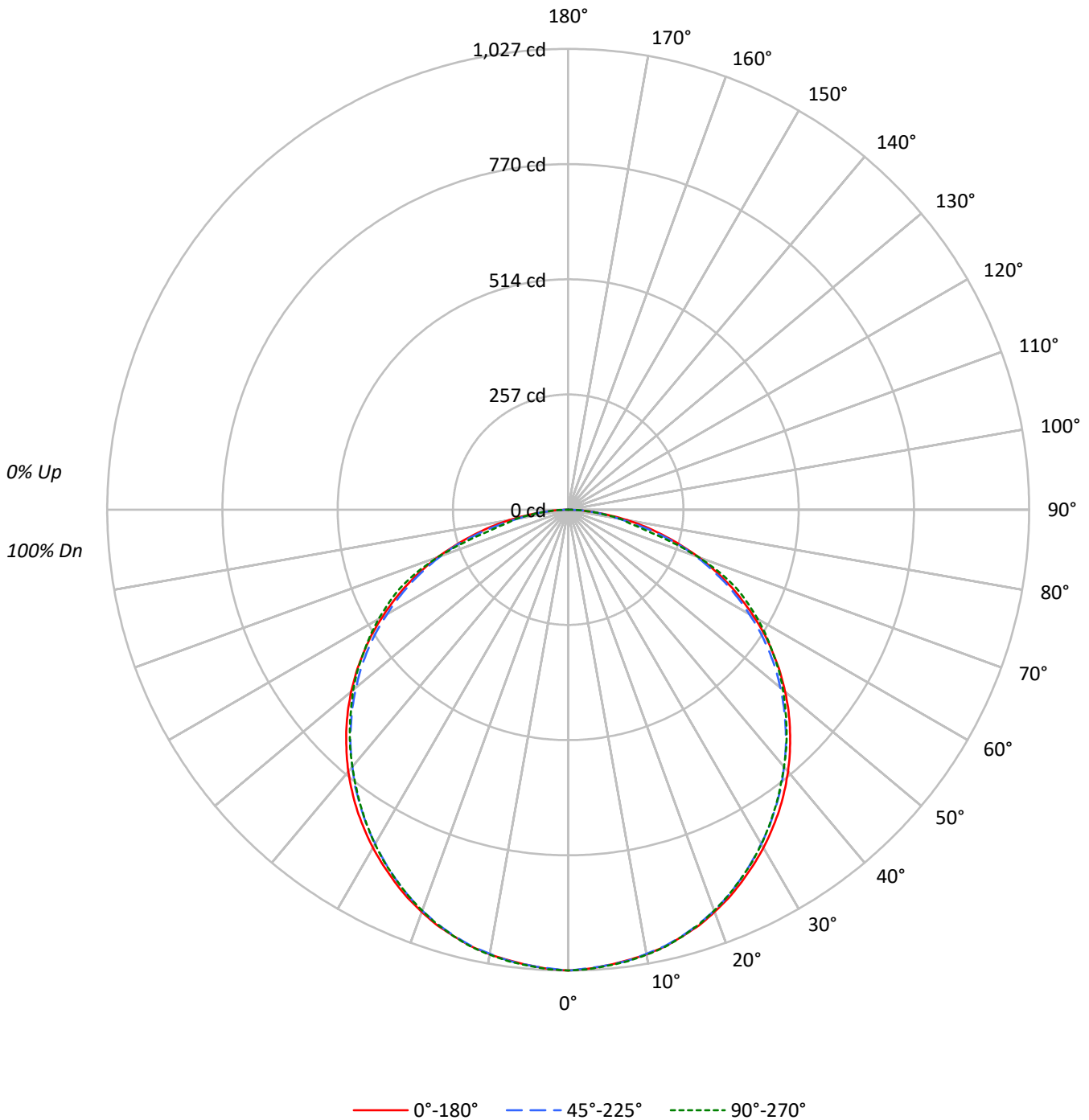
Input Watts (W): 22.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	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	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2764	2764	2764
5°	2753	2753	2755
10°	2749	2746	2752
15°	2741	2739	2741
20°	2732	2723	2723
25°	2717	2699	2699
30°	2703	2672	2675
35°	2690	2651	2648
40°	2677	2628	2628
45°	2660	2607	2618
50°	2642	2583	2617
55°	2613	2557	2613
60°	2573	2508	2626
65°	2521	2458	2630
70°	2431	2376	2431
75°	2267	2163	1871
80°	2061	1751	1844
85°	1513	1544	1482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	3.2
10°-20°	278.2	9.3
20°-30°	420.6	14.0
30°-40°	508.1	16.9
40°-50°	533.3	17.8
50°-60°	493.8	16.5
60°-70°	390.5	13.0
70°-80°	219.0	7.3
80°-90°	58.8	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°	795.9	26.5
0°-40°	1304.0	43.5
0°-60°	2331.1	77.7
0°-90°	2999.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2999.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1019	1029	1019	1020	1020	97
15°	984	994	983	982	984	278
25°	915	923	909	906	909	422
35°	819	825	807	803	806	512
45°	699	703	685	682	688	539
55°	557	558	545	550	557	498
65°	396	396	386	399	413	391
75°	218	219	208	188	180	232
85°	49	49	50	49	48	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027	1027	1027	1027	1027
2.5°	1024	1033	1023	1024	1025
5°	1019	1029	1019	1020	1020
7.5°	1013	1023	1014	1013	1015
10°	1006	1016	1005	1006	1007
12.5°	997	1006	996	996	998
15°	984	994	983	982	984
17.5°	971	979	968	967	969
20°	954	963	951	949	951
22.5°	936	944	931	929	931
25°	915	923	909	906	909
27.5°	893	900	885	882	886
30°	870	877	860	857	861
32.5°	845	851	835	830	834
35°	819	825	807	803	806
37.5°	791	797	779	775	777
40°	762	767	748	744	748
42.5°	731	736	718	715	719
45°	699	703	685	682	688
47.5°	666	670	652	651	656
50°	631	634	617	618	625
52.5°	595	596	582	585	592
55°	557	558	545	550	557
57.5°	519	520	507	513	523
60°	478	479	466	477	488
62.5°	437	438	427	439	451
65°	396	396	386	399	413
67.5°	353	353	344	357	365
70°	309	310	302	305	309
72.5°	263	265	258	247	244
75°	218	219	208	188	180
77.5°	176	174	158	140	140
80°	133	131	113	116	119
82.5°	89	89	83	82	82
85°	49	49	50	49	48
87.5°	21	21	22	22	20
90°	0	0	0	0	0

(END OF REPORT)