

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: P393287

Luminaire Tested: **22EN-LD2-30-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-30-UNV-L82765-W2A-1-U (5000K)
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: 2880.3 lumens
Efficiency: N/A
Efficacy: 132.7 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

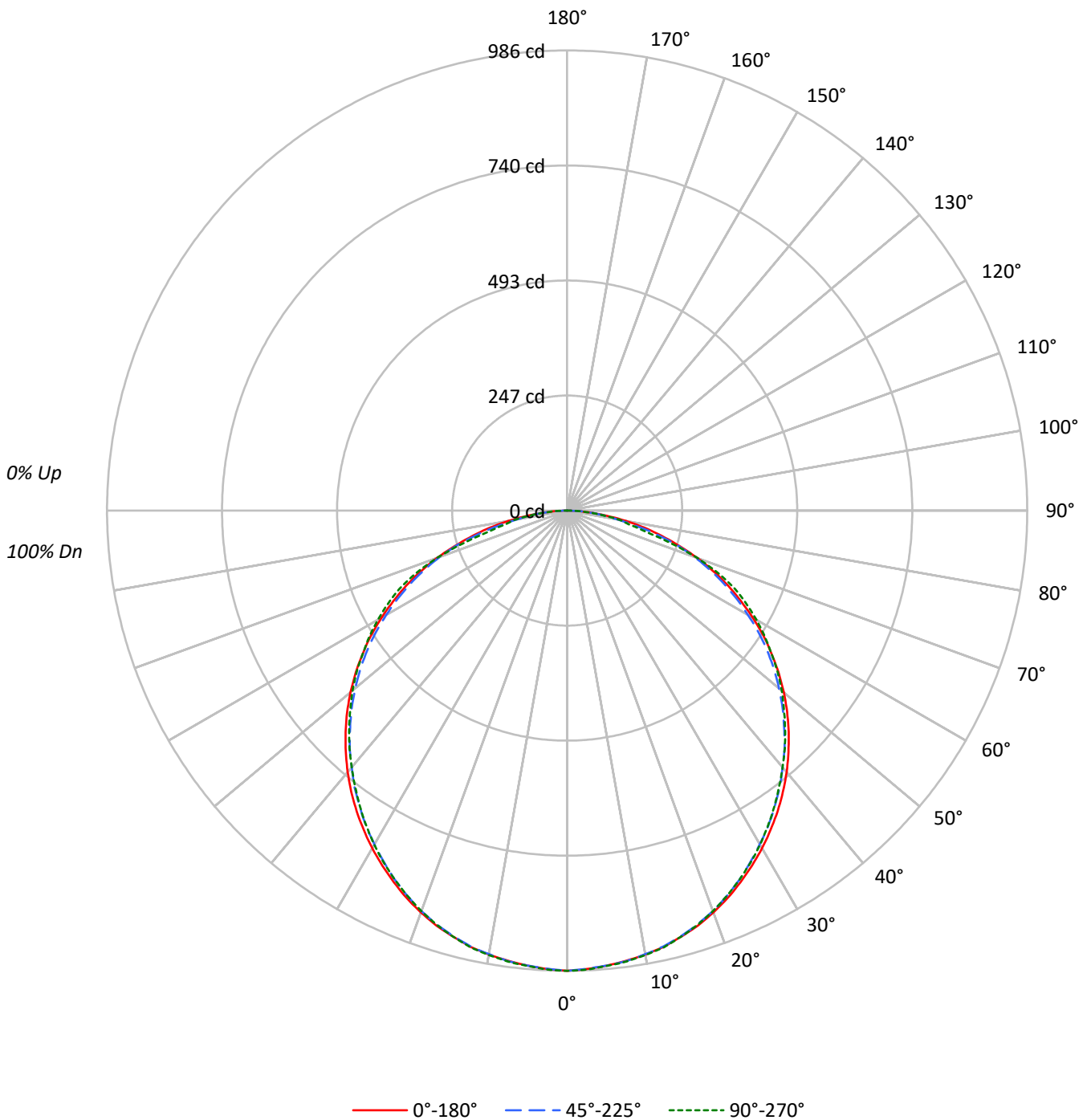
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2654	2654	2654
5°	2643	2643	2646
10°	2640	2637	2642
15°	2632	2630	2632
20°	2623	2615	2615
25°	2609	2592	2592
30°	2596	2566	2569
35°	2584	2546	2543
40°	2570	2523	2523
45°	2554	2503	2514
50°	2537	2480	2513
55°	2510	2455	2510
60°	2470	2408	2522
65°	2422	2360	2525
70°	2334	2282	2334
75°	2176	2076	1797
80°	1979	1681	1771
85°	1454	1482	1423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.2
10°-20°	267.1	9.3
20°-30°	403.9	14.0
30°-40°	487.9	16.9
40°-50°	512.1	17.8
50°-60°	474.2	16.5
60°-70°	375.0	13.0
70°-80°	210.3	7.3
80°-90°	56.5	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°	764.3	26.5
0°-40°	1252.2	43.5
0°-60°	2238.5	77.7
0°-90°	2880.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2880.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	978	988	978	980	980	93
15°	945	954	944	943	945	267
25°	879	886	873	870	873	405
35°	786	792	775	771	774	492
45°	671	675	658	655	661	518
55°	535	536	523	528	535	478
65°	380	380	371	383	397	375
75°	209	210	200	180	173	222
85°	47	47	48	47	46	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.2	986.2	986.2	986.2	986.2
2.5°	983.3	992.0	982.4	983.3	984.3
5°	978.5	988.1	978.5	979.5	979.5
7.5°	972.8	982.4	973.7	972.8	974.7
10°	966.0	975.6	965.1	966.0	967.0
12.5°	957.4	966.0	956.4	956.4	958.4
15°	944.9	954.5	943.9	943.0	944.9
17.5°	932.4	940.1	929.5	928.6	930.5
20°	916.1	924.7	913.2	911.3	913.2
22.5°	898.8	906.5	894.0	892.1	894.0
25°	878.7	886.3	872.9	870.0	872.9
27.5°	857.5	864.2	849.8	847.0	850.8
30°	835.4	842.2	825.8	823.0	826.8
32.5°	811.4	817.2	801.8	797.0	800.9
35°	786.5	792.2	774.9	771.1	774.0
37.5°	759.6	765.3	748.1	744.2	746.1
40°	731.7	736.5	718.3	714.4	718.3
42.5°	702.0	706.8	689.5	686.6	690.4
45°	671.2	675.1	657.8	654.9	660.7
47.5°	639.5	643.4	626.1	625.1	629.9
50°	605.9	608.8	592.5	593.4	600.2
52.5°	571.4	572.3	558.9	561.8	568.5
55°	534.9	535.8	523.3	528.2	534.9
57.5°	498.4	499.3	486.9	492.6	502.2
60°	459.0	460.0	447.5	458.1	468.6
62.5°	419.6	420.6	410.0	421.6	433.1
65°	380.3	380.3	370.7	383.1	396.6
67.5°	339.0	339.0	330.3	342.8	350.5
70°	296.7	297.7	290.0	292.9	296.7
72.5°	252.6	254.5	247.8	237.2	234.3
75°	209.3	210.3	199.7	180.5	172.8
77.5°	169.0	167.1	151.7	134.4	134.4
80°	127.7	125.8	108.5	111.4	114.3
82.5°	85.5	85.5	79.7	78.7	78.7
85°	47.1	47.1	48.0	47.1	46.1
87.5°	20.2	20.2	21.1	21.1	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)