

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: P393282

Luminaire Tested: **22EN-LD2-30-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393282
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 (2700K)
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: 2724.8 lumens
Efficiency: N/A
Efficacy: 124.4 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

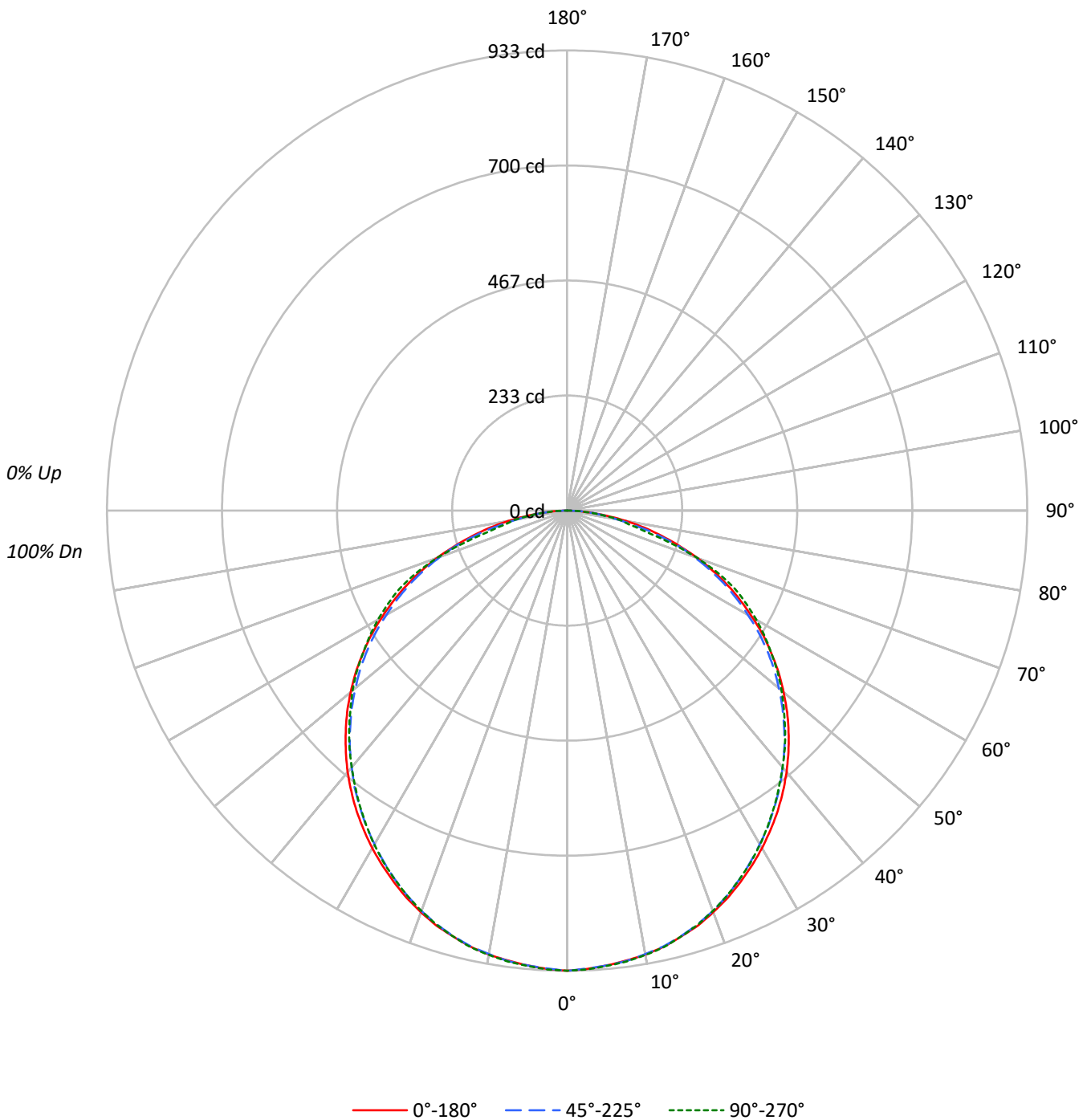
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393282

CATALOG NUMBER: 22EN-LD2-30-UNV-L82765-W2A-1-U (2700K)

Luminous Intensity Polar Plot





TEST NUMBER: P393282

CATALOG NUMBER: 22EN-LD2-30-UNV-L82765-W2A-1-U (2700K)

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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2511	2511	2511
5°	2501	2501	2503
10°	2497	2495	2500
15°	2490	2488	2490
20°	2482	2474	2474
25°	2468	2452	2452
30°	2456	2428	2431
35°	2444	2408	2405
40°	2432	2387	2387
45°	2417	2368	2379
50°	2400	2346	2377
55°	2374	2323	2374
60°	2337	2278	2386
65°	2290	2233	2389
70°	2209	2158	2209
75°	2059	1965	1700
80°	1872	1592	1675
85°	1374	1402	1346



TEST NUMBER: P393282

CATALOG NUMBER: 22EN-LD2-30-UNV-L82765-W2A-1-U (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	3.2
10°-20°	252.7	9.3
20°-30°	382.1	14.0
30°-40°	461.5	16.9
40°-50°	484.5	17.8
50°-60°	448.5	16.5
60°-70°	354.8	13.0
70°-80°	199.0	7.3
80°-90°	53.4	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°	723.0	26.5
0°-40°	1184.6	43.5
0°-60°	2117.6	77.7
0°-90°	2724.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2724.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	926	935	926	927	927	88
15°	894	903	893	892	894	252
25°	831	838	826	823	826	383
35°	744	750	733	730	732	465
45°	635	639	622	620	625	490
55°	506	507	495	500	506	452
65°	360	360	351	362	375	355
75°	198	199	189	171	164	210
85°	44	44	45	44	44	56
90°	0	0	0	0	0	



TEST NUMBER: P393282

CATALOG NUMBER: 22EN-LD2-30-UNV-L82765-W2A-1-U (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.0	933.0	933.0	933.0	933.0
2.5°	930.2	938.4	929.3	930.2	931.1
5°	925.7	934.8	925.7	926.6	926.6
7.5°	920.2	929.3	921.1	920.2	922.1
10°	913.9	923.0	913.0	913.9	914.8
12.5°	905.7	913.9	904.8	904.8	906.6
15°	893.9	903.0	893.0	892.1	893.9
17.5°	882.1	889.4	879.4	878.5	880.3
20°	866.6	874.8	863.9	862.1	863.9
22.5°	850.3	857.6	845.7	843.9	845.7
25°	831.2	838.5	825.8	823.0	825.8
27.5°	811.2	817.6	804.0	801.2	804.9
30°	790.3	796.7	781.3	778.5	782.2
32.5°	767.6	773.1	758.5	754.0	757.6
35°	744.0	749.5	733.1	729.5	732.2
37.5°	718.6	724.0	707.7	704.0	705.9
40°	692.2	696.8	679.5	675.9	679.5
42.5°	664.1	668.6	652.3	649.5	653.2
45°	635.0	638.6	622.3	619.6	625.0
47.5°	605.0	608.6	592.3	591.4	595.9
50°	573.2	575.9	560.5	561.4	567.8
52.5°	540.5	541.4	528.7	531.4	537.8
55°	506.0	506.9	495.1	499.6	506.0
57.5°	471.5	472.4	460.6	466.0	475.1
60°	434.2	435.1	423.3	433.3	443.3
62.5°	397.0	397.9	387.9	398.8	409.7
65°	359.7	359.7	350.7	362.5	375.2
67.5°	320.7	320.7	312.5	324.3	331.6
70°	280.7	281.6	274.3	277.1	280.7
72.5°	238.9	240.7	234.4	224.4	221.7
75°	198.0	198.9	189.0	170.8	163.5
77.5°	159.9	158.1	143.5	127.2	127.2
80°	120.8	119.0	102.7	105.4	108.1
82.5°	80.9	80.9	75.4	74.5	74.5
85°	44.5	44.5	45.4	44.5	43.6
87.5°	19.1	19.1	20.0	20.0	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)