

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: P393300

Luminaire Tested: **22EN-LD2-30-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393300
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-L92765-W2A-1-U (3500K)
Description: 2X2 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2375.4 lumens
Efficiency: N/A
Efficacy: 109.5 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

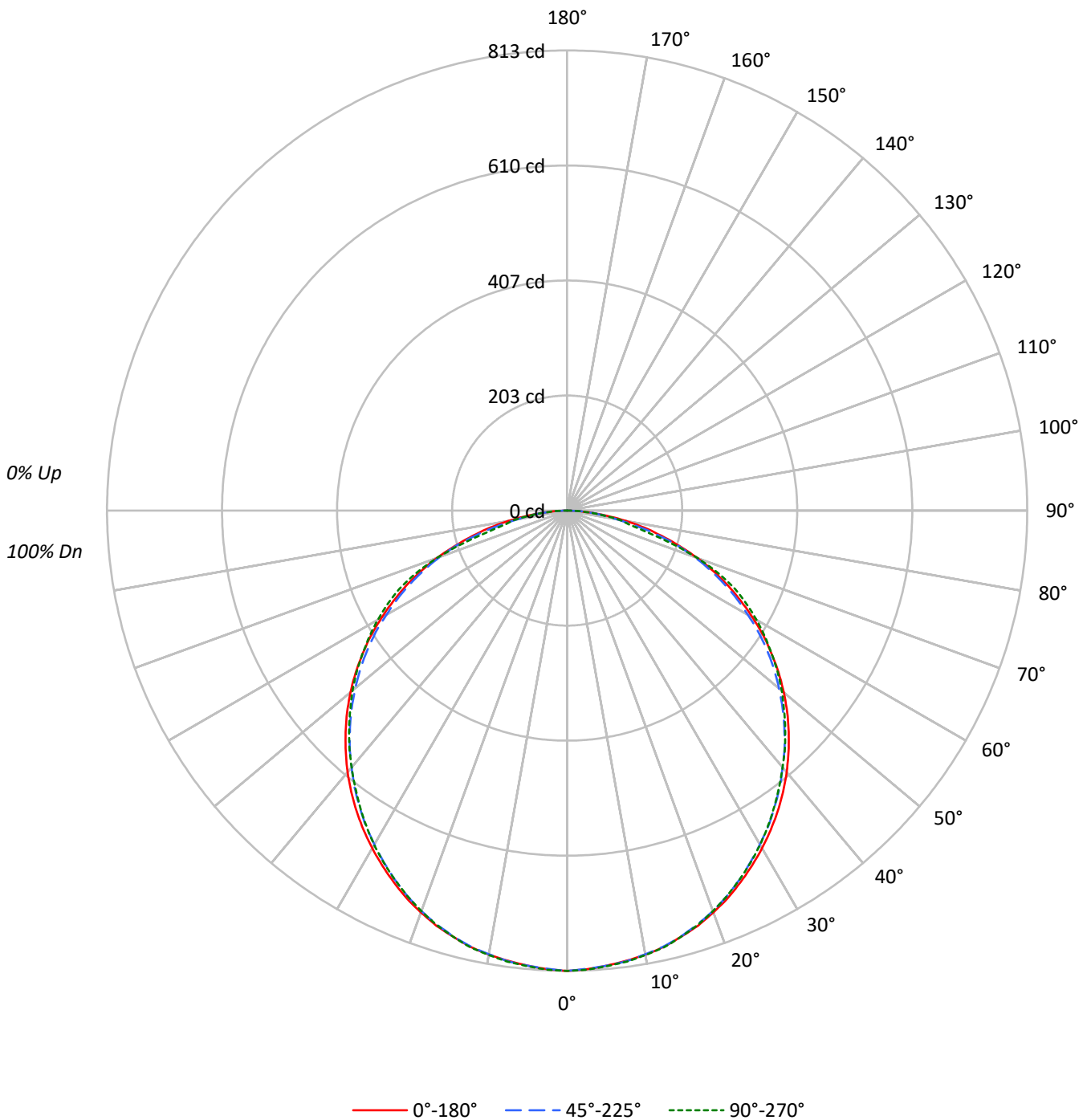
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393300

CATALOG NUMBER: 22EN-LD2-30-UNV-L92765-W2A-1-U (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P393300

CATALOG NUMBER: 22EN-LD2-30-UNV-L92765-W2A-1-U (3500K)

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°	2189	2189	2189
5°	2180	2180	2182
10°	2177	2175	2179
15°	2171	2169	2171
20°	2164	2157	2157
25°	2151	2138	2138
30°	2141	2116	2119
35°	2131	2099	2097
40°	2120	2081	2081
45°	2107	2065	2074
50°	2092	2045	2072
55°	2069	2025	2069
60°	2038	1986	2080
65°	1997	1947	2083
70°	1925	1882	1925
75°	1795	1712	1483
80°	1632	1387	1460
85°	1198	1223	1173



TEST NUMBER: P393300

CATALOG NUMBER: 22EN-LD2-30-UNV-L92765-W2A-1-U (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	3.2
10°-20°	220.3	9.3
20°-30°	333.1	14.0
30°-40°	402.4	16.9
40°-50°	422.4	17.8
50°-60°	391.0	16.5
60°-70°	309.3	13.0
70°-80°	173.4	7.3
80°-90°	46.5	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°	630.3	26.5
0°-40°	1032.7	43.5
0°-60°	1846.1	77.7
0°-90°	2375.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2375.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	807	815	807	808	808	77
15°	779	787	778	778	779	220
25°	725	731	720	718	720	334
35°	649	653	639	636	638	406
45°	554	557	542	540	545	427
55°	441	442	432	436	441	394
65°	314	314	306	316	327	310
75°	173	173	165	149	143	183
85°	39	39	40	39	38	49
90°	0	0	0	0	0	



TEST NUMBER: P393300

CATALOG NUMBER: 22EN-LD2-30-UNV-L92765-W2A-1-U (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.3	813.3	813.3	813.3	813.3
2.5°	811.0	818.1	810.2	811.0	811.8
5°	807.0	814.9	807.0	807.8	807.8
7.5°	802.2	810.2	803.0	802.2	803.8
10°	796.7	804.6	795.9	796.7	797.5
12.5°	789.6	796.7	788.8	788.8	790.4
15°	779.3	787.2	778.5	777.7	779.3
17.5°	769.0	775.3	766.6	765.8	767.4
20°	755.5	762.7	753.1	751.6	753.1
22.5°	741.3	747.6	737.3	735.7	737.3
25°	724.6	731.0	719.9	717.5	719.9
27.5°	707.2	712.8	700.9	698.5	701.7
30°	689.0	694.5	681.1	678.7	681.9
32.5°	669.2	674.0	661.3	657.3	660.5
35°	648.6	653.4	639.1	635.9	638.3
37.5°	626.4	631.2	616.9	613.8	615.3
40°	603.5	607.4	592.4	589.2	592.4
42.5°	578.9	582.9	568.6	566.2	569.4
45°	553.6	556.7	542.5	540.1	544.9
47.5°	527.4	530.6	516.4	515.6	519.5
50°	499.7	502.1	488.6	489.4	495.0
52.5°	471.2	472.0	460.9	463.3	468.8
55°	441.1	441.9	431.6	435.6	441.1
57.5°	411.0	411.8	401.5	406.3	414.2
60°	378.6	379.3	369.1	377.8	386.5
62.5°	346.1	346.9	338.2	347.7	357.2
65°	313.6	313.6	305.7	316.0	327.1
67.5°	279.6	279.6	272.4	282.7	289.1
70°	244.7	245.5	239.2	241.5	244.7
72.5°	208.3	209.9	204.3	195.6	193.2
75°	172.6	173.4	164.7	148.9	142.6
77.5°	139.4	137.8	125.1	110.9	110.9
80°	105.3	103.7	89.5	91.9	94.2
82.5°	70.5	70.5	65.7	64.9	64.9
85°	38.8	38.8	39.6	38.8	38.0
87.5°	16.6	16.6	17.4	17.4	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)