

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: P393284

Luminaire Tested: **22EN-LD2-30-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393284
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 (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: 2840.8 lumens
Efficiency: N/A
Efficacy: 129.7 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

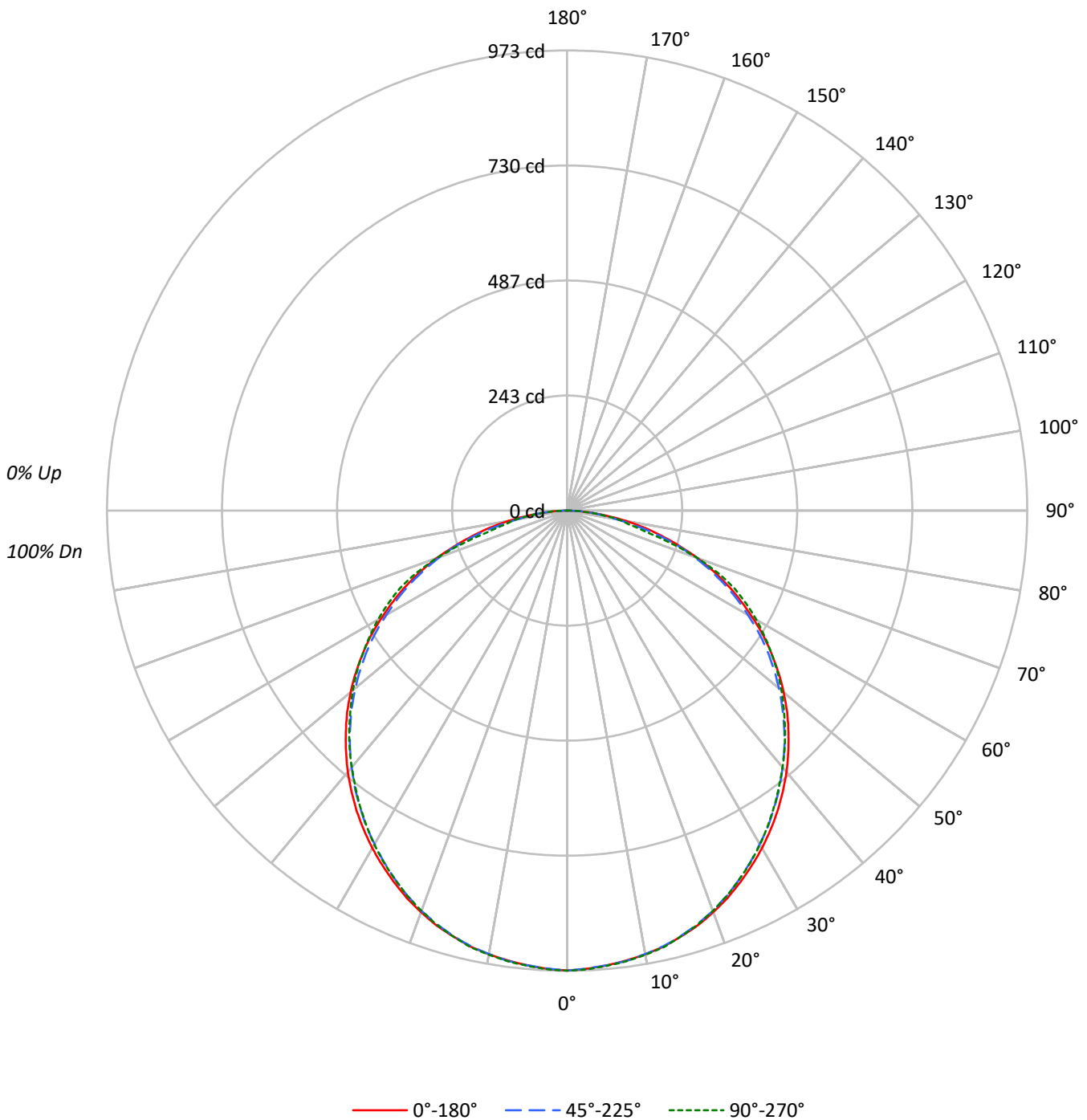
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2618	2618	2618
5°	2607	2607	2610
10°	2604	2601	2606
15°	2596	2594	2596
20°	2587	2579	2579
25°	2573	2556	2556
30°	2560	2531	2534
35°	2548	2511	2508
40°	2535	2488	2488
45°	2519	2469	2480
50°	2502	2447	2478
55°	2475	2422	2475
60°	2436	2376	2488
65°	2388	2328	2491
70°	2303	2250	2303
75°	2147	2048	1773
80°	1953	1658	1746
85°	1433	1463	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	3.2
10°-20°	263.5	9.3
20°-30°	398.4	14.0
30°-40°	481.2	16.9
40°-50°	505.1	17.8
50°-60°	467.7	16.5
60°-70°	369.9	13.0
70°-80°	207.4	7.3
80°-90°	55.7	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°	753.8	26.5
0°-40°	1235.0	43.5
0°-60°	2207.8	77.7
0°-90°	2840.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2840.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	965	975	965	966	966	92
15°	932	941	931	930	932	263
25°	867	874	861	858	861	400
35°	776	781	764	760	763	485
45°	662	666	649	646	652	511
55°	528	528	516	521	528	472
65°	375	375	366	378	391	370
75°	206	207	197	178	170	219
85°	46	46	47	46	46	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.7	972.7	972.7	972.7	972.7
2.5°	969.8	978.4	968.9	969.8	970.8
5°	965.1	974.6	965.1	966.1	966.1
7.5°	959.4	968.9	960.4	959.4	961.3
10°	952.8	962.3	951.9	952.8	953.7
12.5°	944.3	952.8	943.3	943.3	945.2
15°	932.0	941.4	931.0	930.1	932.0
17.5°	919.6	927.2	916.8	915.9	917.8
20°	903.5	912.1	900.7	898.8	900.7
22.5°	886.5	894.1	881.8	879.9	881.8
25°	866.6	874.2	860.9	858.1	860.9
27.5°	845.8	852.4	838.2	835.4	839.1
30°	824.0	830.6	814.5	811.7	815.5
32.5°	800.3	806.0	790.8	786.1	789.9
35°	775.7	781.4	764.3	760.5	763.4
37.5°	749.2	754.9	737.8	734.0	735.9
40°	721.7	726.4	708.4	704.7	708.4
42.5°	692.3	697.1	680.0	677.2	681.0
45°	662.0	665.8	648.8	645.9	651.6
47.5°	630.8	634.6	617.5	616.6	621.3
50°	597.6	600.5	584.4	585.3	591.9
52.5°	563.5	564.5	551.2	554.1	560.7
55°	527.5	528.5	516.2	520.9	527.5
57.5°	491.6	492.5	480.2	485.9	495.3
60°	452.7	453.7	441.4	451.8	462.2
62.5°	413.9	414.8	404.4	415.8	427.1
65°	375.1	375.1	365.6	377.9	391.2
67.5°	334.3	334.3	325.8	338.1	345.7
70°	292.7	293.6	286.0	288.9	292.7
72.5°	249.1	251.0	244.4	233.9	231.1
75°	206.5	207.4	197.0	178.1	170.5
77.5°	166.7	164.8	149.6	132.6	132.6
80°	126.0	124.1	107.0	109.9	112.7
82.5°	84.3	84.3	78.6	77.7	77.7
85°	46.4	46.4	47.4	46.4	45.5
87.5°	19.9	19.9	20.8	20.8	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)