

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: P393303

Luminaire Tested: **22EN-LD2-30-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393303  
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 (5000K)  
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: 2528.2 lumens  
Efficiency: N/A  
Efficacy: 116.0 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

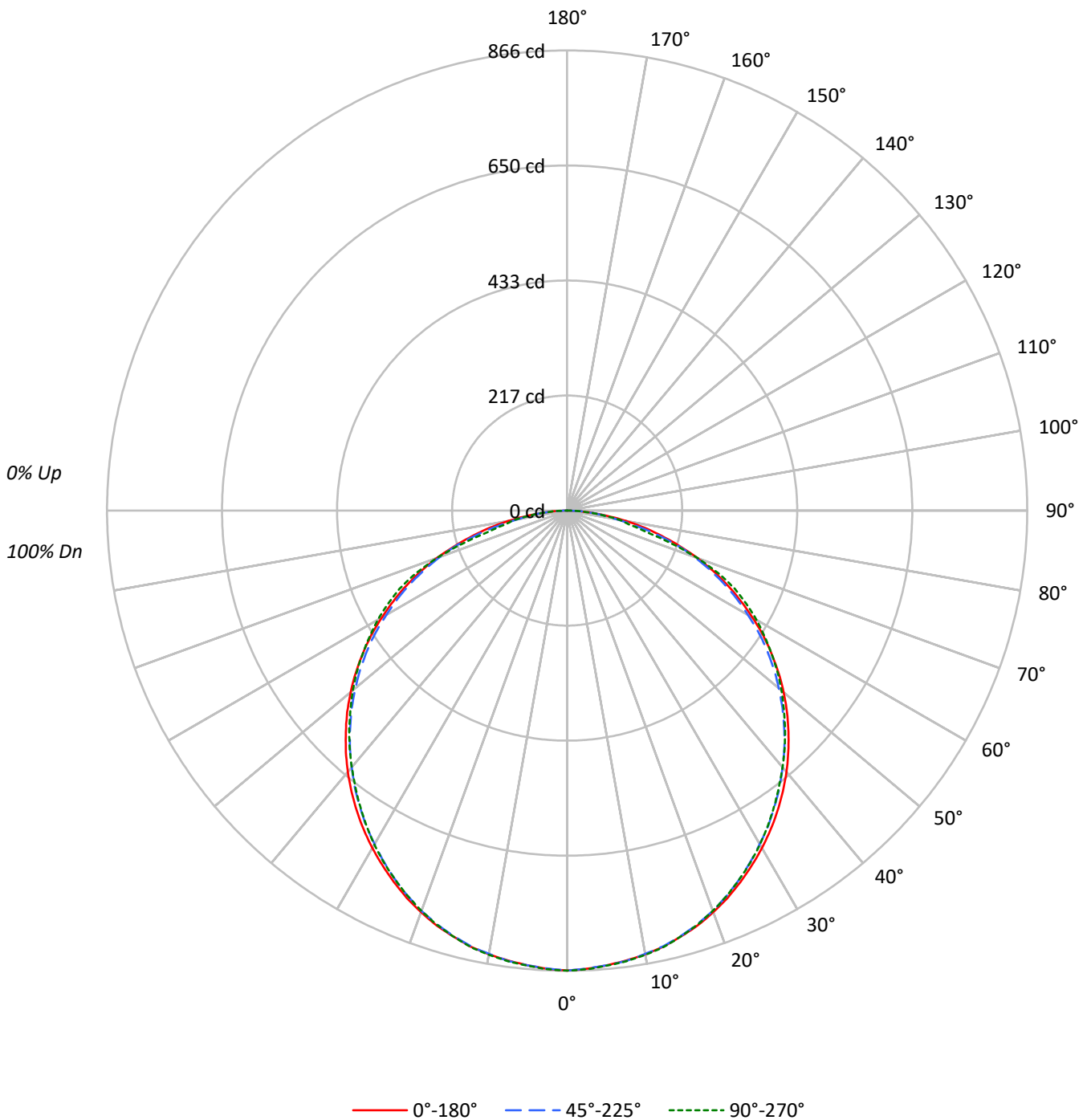
Input Watts (W): 21.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2330	2330	2330
5°	2320	2320	2323
10°	2317	2315	2319
15°	2311	2308	2311
20°	2303	2296	2296
25°	2290	2275	2275
30°	2279	2252	2255
35°	2268	2235	2232
40°	2256	2215	2215
45°	2242	2197	2207
50°	2227	2177	2205
55°	2203	2155	2203
60°	2168	2114	2214
65°	2125	2072	2216
70°	2050	2003	2050
75°	1911	1823	1577
80°	1737	1475	1554
85°	1275	1300	1250



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.9	3.2
10°-20°	234.5	9.3
20°-30°	354.5	14.0
30°-40°	428.2	16.9
40°-50°	449.6	17.8
50°-60°	416.2	16.5
60°-70°	329.2	13.0
70°-80°	184.6	7.3
80°-90°	49.5	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°	670.9	26.5
0°-40°	1099.1	43.5
0°-60°	1964.9	77.7
0°-90°	2528.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2528.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	859	867	859	860	860	82
15°	829	838	829	828	829	234
25°	771	778	766	764	766	356
35°	690	695	680	677	679	432
45°	589	593	577	575	580	455
55°	470	470	459	464	470	420
65°	334	334	325	336	348	329
75°	184	185	175	158	152	195
85°	41	41	42	41	40	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	865.7	865.7	865.7	865.7	865.7
2.5°	863.1	870.7	862.3	863.1	864.0
5°	858.9	867.3	858.9	859.8	859.8
7.5°	853.9	862.3	854.7	853.9	855.5
10°	848.0	856.4	847.1	848.0	848.8
12.5°	840.4	848.0	839.5	839.5	841.2
15°	829.4	837.8	828.6	827.7	829.4
17.5°	818.5	825.2	815.9	815.1	816.8
20°	804.1	811.7	801.6	799.9	801.6
22.5°	789.0	795.7	784.7	783.1	784.7
25°	771.3	778.0	766.2	763.7	766.2
27.5°	752.7	758.6	746.0	743.4	746.8
30°	733.3	739.2	724.9	722.4	725.7
32.5°	712.3	717.3	703.8	699.6	703.0
35°	690.3	695.4	680.2	676.8	679.4
37.5°	666.7	671.8	656.6	653.2	654.9
40°	642.3	646.5	630.5	627.1	630.5
42.5°	616.2	620.4	605.2	602.7	606.0
45°	589.2	592.6	577.4	574.9	579.9
47.5°	561.4	564.7	549.6	548.7	552.9
50°	531.9	534.4	520.1	520.9	526.8
52.5°	501.5	502.4	490.6	493.1	499.0
55°	469.5	470.3	459.4	463.6	469.5
57.5°	437.5	438.3	427.4	432.4	440.8
60°	402.9	403.7	392.8	402.1	411.3
62.5°	368.3	369.2	359.9	370.0	380.1
65°	333.8	333.8	325.4	336.3	348.1
67.5°	297.5	297.5	290.0	300.9	307.7
70°	260.5	261.3	254.6	257.1	260.5
72.5°	221.7	223.4	217.5	208.2	205.7
75°	183.8	184.6	175.3	158.5	151.7
77.5°	148.4	146.7	133.2	118.0	118.0
80°	112.1	110.4	95.2	97.8	100.3
82.5°	75.0	75.0	70.0	69.1	69.1
85°	41.3	41.3	42.1	41.3	40.5
87.5°	17.7	17.7	18.5	18.5	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)