

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: P393299

Luminaire Tested: **22EN-LD2-30-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393299
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 (3000K)
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: 2322.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

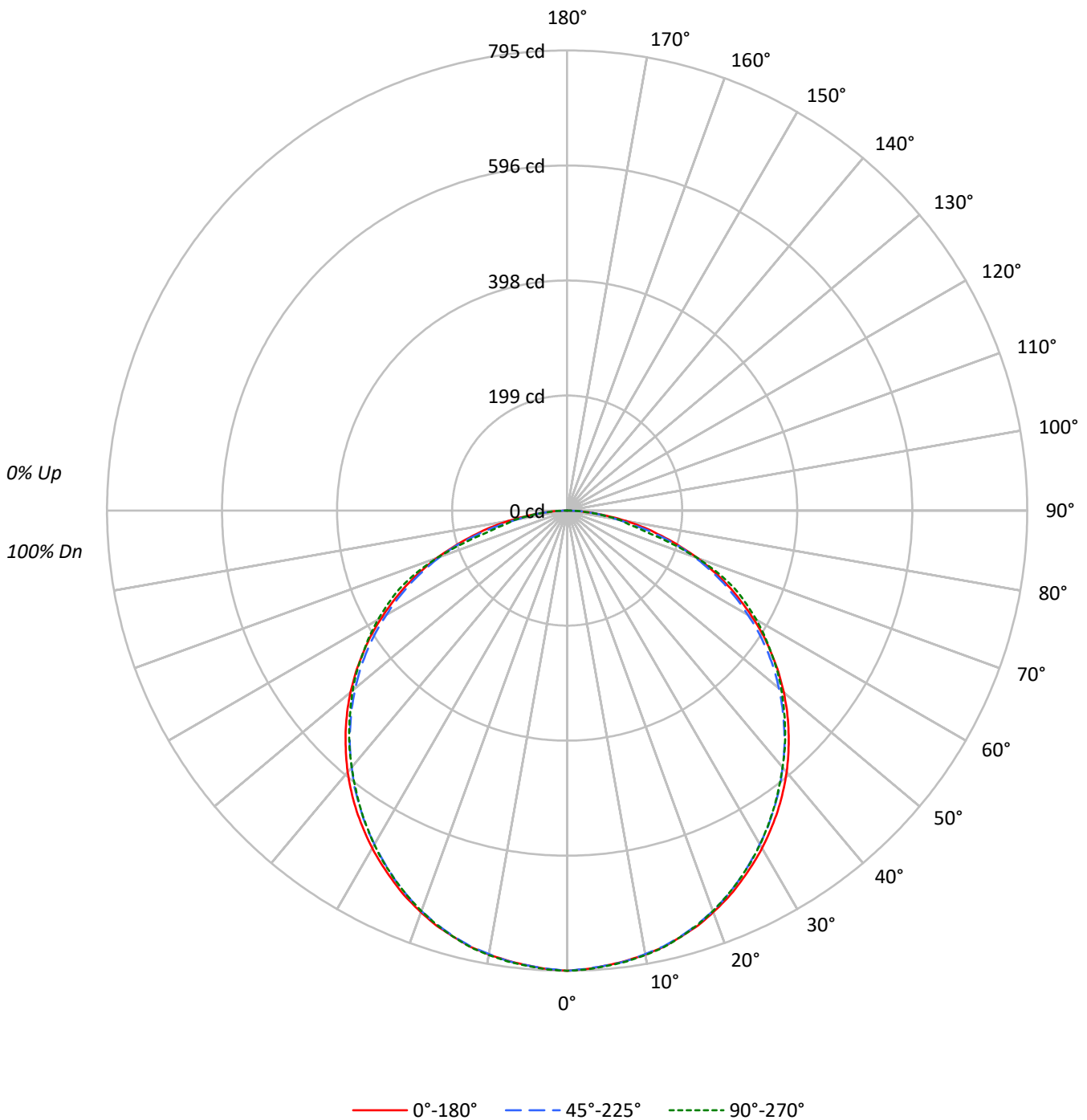
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2140	2140	2140
5°	2131	2131	2133
10°	2128	2126	2130
15°	2122	2120	2122
20°	2115	2108	2108
25°	2103	2089	2089
30°	2093	2069	2071
35°	2083	2052	2050
40°	2072	2034	2034
45°	2059	2018	2027
50°	2045	2000	2025
55°	2023	1979	2023
60°	1991	1942	2033
65°	1952	1903	2036
70°	1882	1840	1882
75°	1755	1674	1448
80°	1596	1356	1427
85°	1170	1195	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	3.2
10°-20°	215.4	9.3
20°-30°	325.6	14.0
30°-40°	393.3	16.9
40°-50°	412.9	17.8
50°-60°	382.3	16.5
60°-70°	302.3	13.0
70°-80°	169.5	7.3
80°-90°	45.5	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°	616.2	26.5
0°-40°	1009.5	43.5
0°-60°	1804.6	77.7
0°-90°	2322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	789	797	789	790	790	75
15°	762	770	761	760	762	215
25°	708	714	704	701	704	327
35°	634	639	625	622	624	397
45°	541	544	530	528	533	417
55°	431	432	422	426	431	385
65°	307	307	299	309	320	303
75°	169	170	161	146	139	179
85°	38	38	39	38	37	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.1	795.1	795.1	795.1	795.1
2.5°	792.7	799.7	792.0	792.7	793.5
5°	788.9	796.6	788.9	789.6	789.6
7.5°	784.2	792.0	785.0	784.2	785.8
10°	778.8	786.5	778.0	778.8	779.6
12.5°	771.8	778.8	771.1	771.1	772.6
15°	761.8	769.5	761.0	760.2	761.8
17.5°	751.7	757.9	749.4	748.6	750.2
20°	738.5	745.5	736.2	734.7	736.2
22.5°	724.6	730.8	720.7	719.2	720.7
25°	708.4	714.5	703.7	701.4	703.7
27.5°	691.3	696.7	685.1	682.8	685.9
30°	673.5	678.9	665.8	663.4	666.5
32.5°	654.2	658.8	646.4	642.5	645.6
35°	634.0	638.7	624.7	621.6	624.0
37.5°	612.4	617.0	603.1	600.0	601.5
40°	589.9	593.8	579.1	576.0	579.1
42.5°	565.9	569.8	555.8	553.5	556.6
45°	541.1	544.2	530.3	528.0	532.6
47.5°	515.6	518.7	504.7	504.0	507.8
50°	488.5	490.8	477.7	478.4	483.8
52.5°	460.6	461.4	450.6	452.9	458.3
55°	431.2	432.0	421.9	425.8	431.2
57.5°	401.8	402.6	392.5	397.1	404.9
60°	370.0	370.8	360.8	369.3	377.8
62.5°	338.3	339.1	330.6	339.9	349.1
65°	306.6	306.6	298.8	308.9	319.7
67.5°	273.3	273.3	266.3	276.4	282.6
70°	239.2	240.0	233.8	236.1	239.2
72.5°	203.6	205.2	199.7	191.2	188.9
75°	168.8	169.5	161.0	145.5	139.3
77.5°	136.3	134.7	122.3	108.4	108.4
80°	103.0	101.4	87.5	89.8	92.1
82.5°	68.9	68.9	64.3	63.5	63.5
85°	37.9	37.9	38.7	37.9	37.2
87.5°	16.3	16.3	17.0	17.0	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)