

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: P393227

Luminaire Tested: **22EN-LD2-19-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-19-UNV-L83050-W2A-1-U (3000K)
Description: 2X2 ENCOUNTER, 1900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2179.8 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

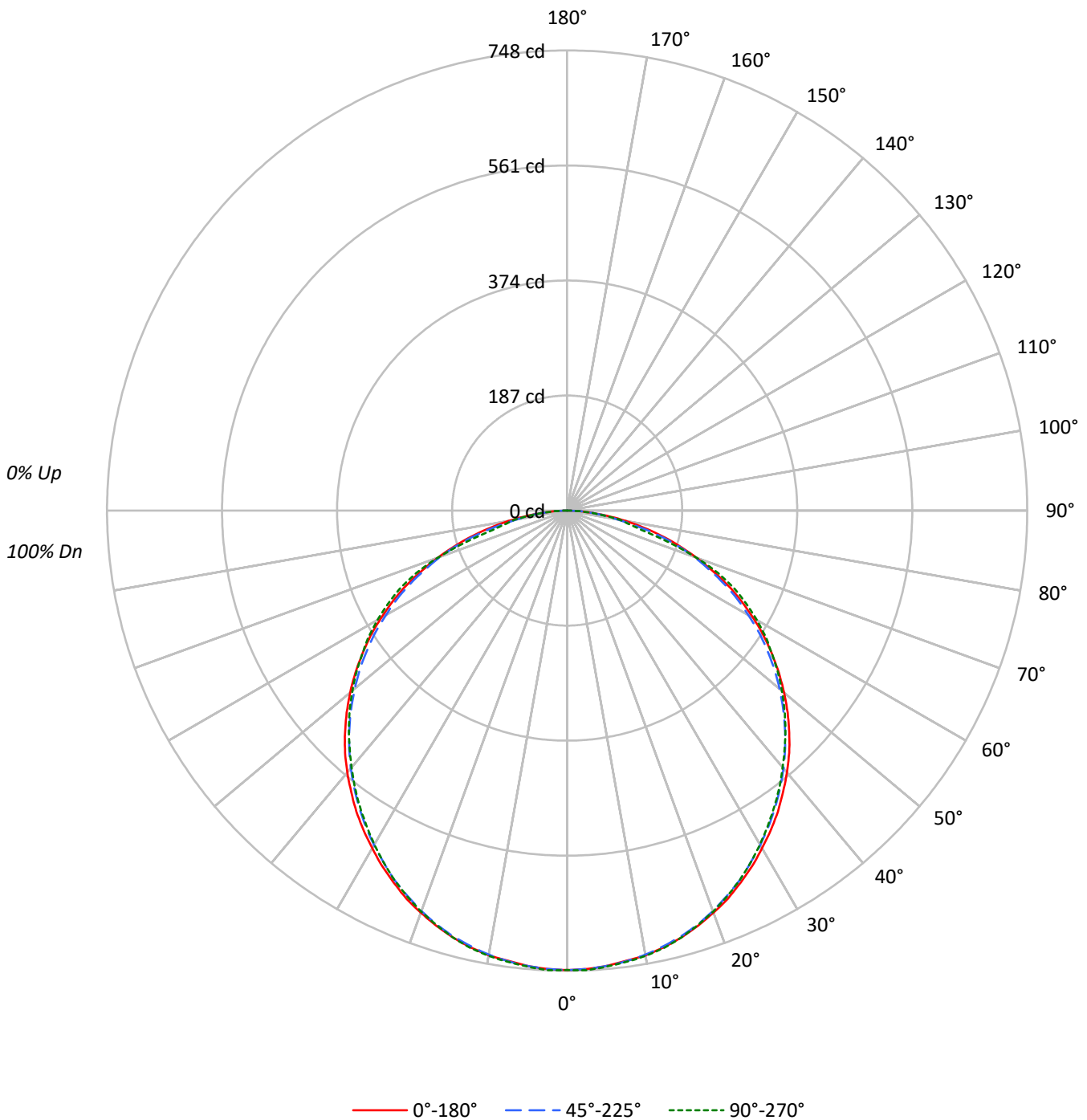
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	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	46	57	50	45	55	49	45	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°	2010	2010	2010
5°	2007	2007	2009
10°	2006	2003	2008
15°	2001	1996	2001
20°	1992	1984	1987
25°	1981	1969	1969
30°	1969	1951	1948
35°	1962	1936	1930
40°	1953	1922	1915
45°	1944	1906	1910
50°	1928	1886	1907
55°	1907	1865	1907
60°	1880	1832	1917
65°	1842	1792	1911
70°	1758	1726	1758
75°	1657	1575	1351
80°	1494	1282	1358
85°	1093	1124	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	3.2
10°-20°	202.3	9.3
20°-30°	305.8	14.0
30°-40°	369.5	17.0
40°-50°	388.0	17.8
50°-60°	359.2	16.5
60°-70°	283.3	13.0
70°-80°	158.4	7.3
80°-90°	42.8	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°	578.7	26.5
0°-40°	948.2	43.5
0°-60°	1695.3	77.8
0°-90°	2179.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2179.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	743	742	743	743	744	71
15°	718	716	716	716	718	203
25°	667	665	663	661	663	308
35°	597	594	589	585	587	374
45°	511	507	501	498	502	394
55°	406	403	398	400	406	363
65°	289	285	281	291	300	285
75°	159	156	152	137	130	168
85°	35	35	36	36	35	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.8	746.8	746.8	746.8	746.8
2.5°	745.8	744.8	745.8	745.8	747.8
5°	742.9	741.9	742.9	742.9	743.9
7.5°	738.0	738.0	738.9	738.9	739.9
10°	734.0	733.0	733.0	733.0	735.0
12.5°	727.1	725.2	725.2	726.2	728.1
15°	718.3	716.3	716.3	716.3	718.3
17.5°	707.5	706.5	705.5	705.5	706.5
20°	695.6	693.7	692.7	692.7	693.7
22.5°	682.9	679.9	677.9	677.0	678.9
25°	667.1	665.1	663.2	661.2	663.2
27.5°	651.4	648.4	645.5	643.5	645.5
30°	633.7	631.7	627.8	624.8	626.8
32.5°	616.0	614.0	609.1	606.1	607.1
35°	597.3	594.3	589.4	585.4	587.4
37.5°	576.6	574.6	568.7	564.8	566.8
40°	555.9	553.0	547.1	543.1	545.1
42.5°	534.3	530.3	524.4	520.5	523.5
45°	510.7	506.7	500.8	497.9	501.8
47.5°	486.1	482.1	476.2	474.3	479.2
50°	460.5	457.5	450.6	450.6	455.6
52.5°	433.9	430.0	425.1	426.0	432.0
55°	406.4	403.4	397.5	399.5	406.4
57.5°	378.8	374.9	370.0	373.9	382.8
60°	349.3	345.4	340.4	347.3	356.2
62.5°	319.8	315.8	311.9	319.8	328.6
65°	289.3	285.3	281.4	291.2	300.1
67.5°	255.8	251.9	248.9	258.8	265.7
70°	223.4	219.4	219.4	220.4	223.4
72.5°	190.9	188.9	186.9	180.1	176.1
75°	159.4	156.4	151.5	136.8	129.9
77.5°	126.9	124.0	115.1	102.3	103.3
80°	96.4	93.5	82.7	85.6	87.6
82.5°	64.9	64.0	61.0	60.0	60.0
85°	35.4	35.4	36.4	36.4	35.4
87.5°	14.8	14.8	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)