

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: P393228

Luminaire Tested: **22EN-LD2-19-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393228
Test Lab: INNOVATION CENTER (G2)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-19-UNV-L83050-W2A-1-U (3500K)
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: 2215.4 lumens
Efficiency: N/A
Efficacy: 136.8 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

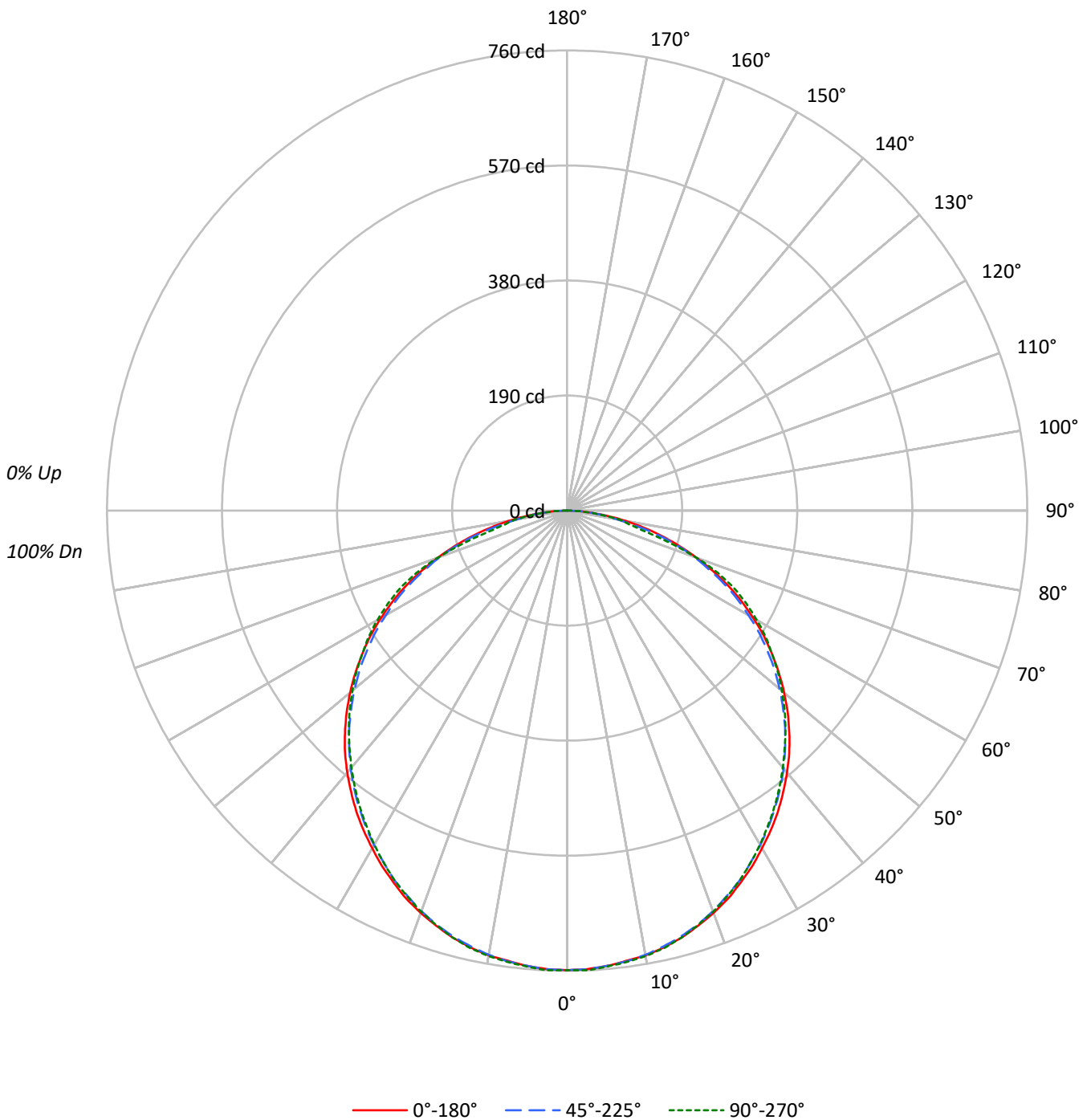
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2042	2042	2042
5°	2039	2039	2042
10°	2038	2036	2041
15°	2034	2028	2034
20°	2025	2016	2019
25°	2013	2001	2001
30°	2001	1982	1979
35°	1994	1968	1961
40°	1985	1953	1946
45°	1975	1937	1941
50°	1959	1917	1938
55°	1938	1895	1938
60°	1911	1862	1948
65°	1872	1821	1942
70°	1786	1755	1786
75°	1684	1601	1372
80°	1519	1302	1379
85°	1112	1142	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	3.2
10°-20°	205.6	9.3
20°-30°	310.8	14.0
30°-40°	375.5	17.0
40°-50°	394.3	17.8
50°-60°	365.0	16.5
60°-70°	287.9	13.0
70°-80°	161.0	7.3
80°-90°	43.5	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°	588.1	26.5
0°-40°	963.6	43.5
0°-60°	1723.0	77.8
0°-90°	2215.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	755	754	755	755	756	72
15°	730	728	728	728	730	206
25°	678	676	674	672	674	313
35°	607	604	599	595	597	380
45°	519	515	509	506	510	400
55°	413	410	404	406	413	369
65°	294	290	286	296	305	290
75°	162	159	154	139	132	171
85°	36	36	37	37	36	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	759	759	759	759	759
2.5°	758	757	758	758	760
5°	755	754	755	755	756
7.5°	750	750	751	751	752
10°	746	745	745	745	747
12.5°	739	737	737	738	740
15°	730	728	728	728	730
17.5°	719	718	717	717	718
20°	707	705	704	704	705
22.5°	694	691	689	688	690
25°	678	676	674	672	674
27.5°	662	659	656	654	656
30°	644	642	638	635	637
32.5°	626	624	619	616	617
35°	607	604	599	595	597
37.5°	586	584	578	574	576
40°	565	562	556	552	554
42.5°	543	539	533	529	532
45°	519	515	509	506	510
47.5°	494	490	484	482	487
50°	468	465	458	458	463
52.5°	441	437	432	433	439
55°	413	410	404	406	413
57.5°	385	381	376	380	389
60°	355	351	346	353	362
62.5°	325	321	317	325	334
65°	294	290	286	296	305
67.5°	260	256	253	263	270
70°	227	223	223	224	227
72.5°	194	192	190	183	179
75°	162	159	154	139	132
77.5°	129	126	117	104	105
80°	98	95	84	87	89
82.5°	66	65	62	61	61
85°	36	36	37	37	36
87.5°	15	15	16	16	16
90°	0	0	0	0	0

(END OF REPORT)