

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: P393219

Luminaire Tested: **22EN-LD2-19-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393219
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-L82765-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: 2032.0 lumens
Efficiency: N/A
Efficacy: 127.0 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

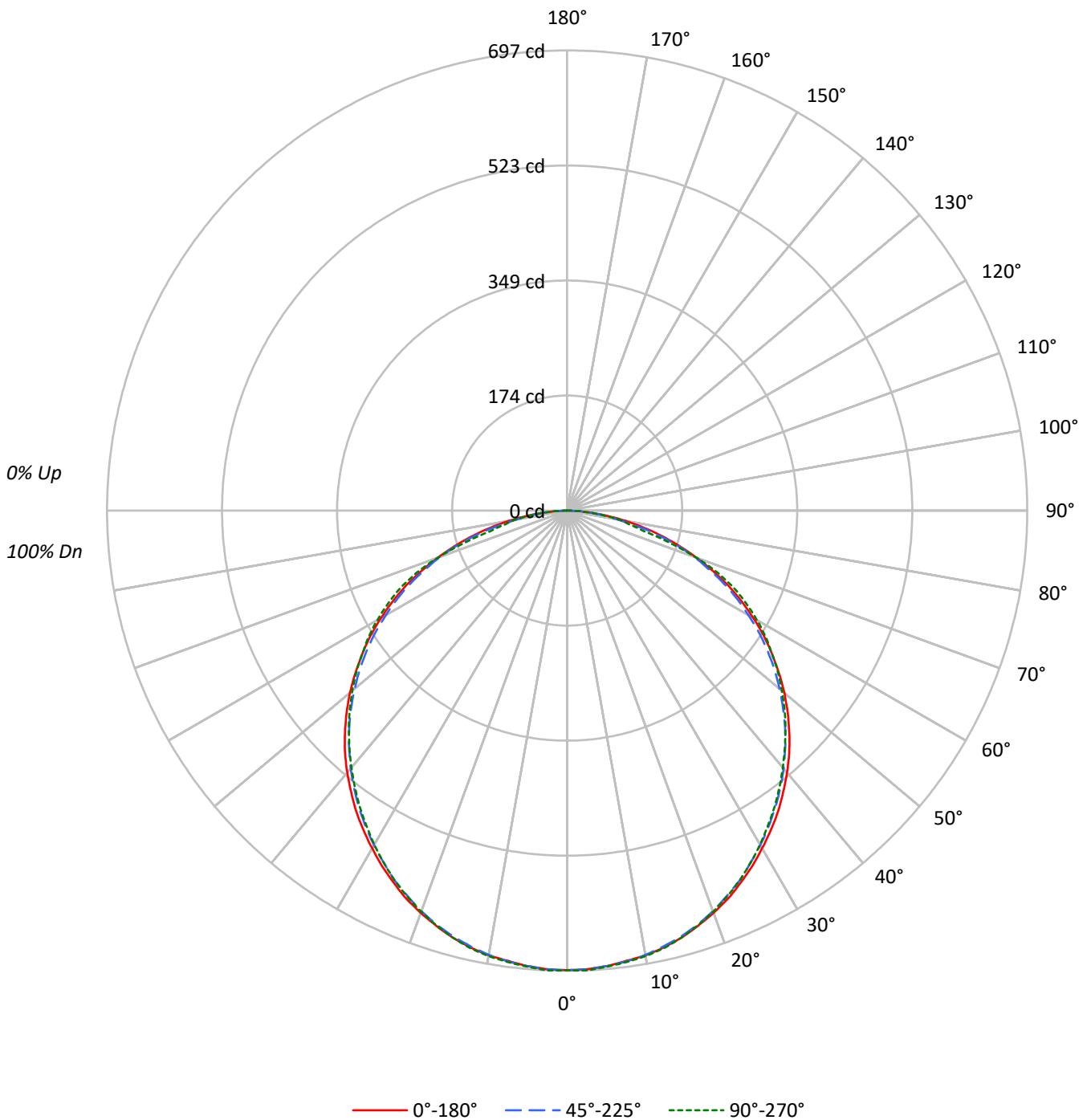
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1873	1873	1873
5°	1871	1871	1873
10°	1870	1867	1872
15°	1865	1860	1865
20°	1857	1849	1852
25°	1847	1836	1836
30°	1835	1818	1816
35°	1829	1805	1799
40°	1820	1792	1785
45°	1811	1777	1780
50°	1797	1759	1778
55°	1777	1739	1777
60°	1752	1708	1787
65°	1717	1670	1782
70°	1638	1609	1638
75°	1545	1469	1259
80°	1393	1193	1265
85°	1019	1047	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.2
10°-20°	188.5	9.3
20°-30°	285.0	14.0
30°-40°	344.4	17.0
40°-50°	361.7	17.8
50°-60°	334.8	16.5
60°-70°	264.1	13.0
70°-80°	147.7	7.3
80°-90°	39.9	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°	539.4	26.5
0°-40°	883.9	43.5
0°-60°	1580.3	77.8
0°-90°	2032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	692	692	692	692	693	66
15°	670	668	668	668	670	189
25°	622	620	618	616	618	287
35°	557	554	549	546	548	348
45°	476	472	467	464	468	367
55°	379	376	371	372	379	339
65°	270	266	262	272	280	266
75°	149	146	141	128	121	157
85°	33	33	34	34	33	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.2	696.2	696.2	696.2	696.2
2.5°	695.3	694.3	695.3	695.3	697.1
5°	692.5	691.6	692.5	692.5	693.4
7.5°	687.9	687.9	688.8	688.8	689.7
10°	684.2	683.3	683.3	683.3	685.2
12.5°	677.8	676.0	676.0	676.9	678.7
15°	669.6	667.7	667.7	667.7	669.6
17.5°	659.5	658.6	657.6	657.6	658.6
20°	648.5	646.6	645.7	645.7	646.6
22.5°	636.5	633.8	632.0	631.0	632.9
25°	621.9	620.0	618.2	616.4	618.2
27.5°	607.2	604.4	601.7	599.9	601.7
30°	590.7	588.9	585.2	582.4	584.3
32.5°	574.2	572.3	567.8	565.0	565.9
35°	556.8	554.0	549.4	545.7	547.6
37.5°	537.5	535.7	530.2	526.5	528.3
40°	518.2	515.5	510.0	506.3	508.1
42.5°	498.0	494.4	488.9	485.2	488.0
45°	476.0	472.4	466.9	464.1	467.8
47.5°	453.1	449.4	443.9	442.1	446.7
50°	429.3	426.5	420.1	420.1	424.7
52.5°	404.5	400.8	396.2	397.2	402.7
55°	378.8	376.1	370.6	372.4	378.8
57.5°	353.1	349.5	344.9	348.5	356.8
60°	325.6	321.9	317.4	323.8	332.0
62.5°	298.1	294.4	290.8	298.1	306.4
65°	269.7	266.0	262.3	271.5	279.8
67.5°	238.5	234.8	232.1	241.2	247.6
70°	208.2	204.5	204.5	205.5	208.2
72.5°	177.9	176.1	174.3	167.9	164.2
75°	148.6	145.8	141.3	127.5	121.1
77.5°	118.3	115.6	107.3	95.4	96.3
80°	89.9	87.1	77.0	79.8	81.6
82.5°	60.5	59.6	56.9	56.0	56.0
85°	33.0	33.0	33.9	33.9	33.0
87.5°	13.8	13.8	14.7	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)