

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: P393237

Luminaire Tested: **22EN-LD2-19-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393237
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-L92765-W2A-1-U (4000K)
Description: 2X2 ENCOUNTER, 1900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1832.2 lumens
Efficiency: N/A
Efficacy: 114.5 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

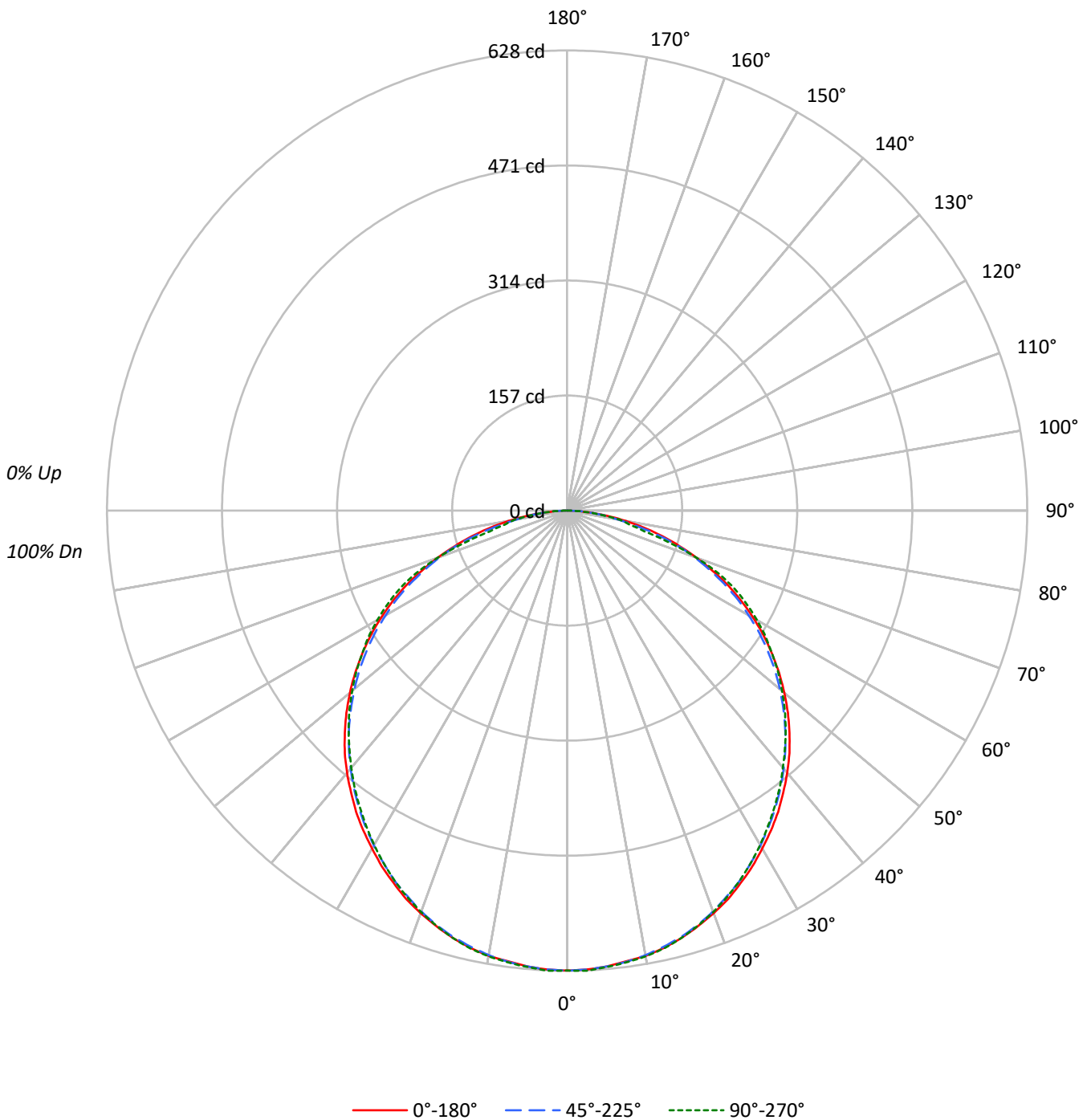
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1689	1689	1689
5°	1687	1687	1689
10°	1686	1683	1688
15°	1682	1677	1682
20°	1674	1667	1670
25°	1665	1655	1655
30°	1655	1639	1637
35°	1649	1627	1622
40°	1642	1615	1610
45°	1633	1602	1605
50°	1621	1586	1603
55°	1603	1567	1603
60°	1580	1540	1611
65°	1548	1506	1606
70°	1477	1451	1477
75°	1393	1325	1135
80°	1255	1077	1141
85°	920	945	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	3.2
10°-20°	170.0	9.3
20°-30°	257.0	14.0
30°-40°	310.6	17.0
40°-50°	326.1	17.8
50°-60°	301.9	16.5
60°-70°	238.1	13.0
70°-80°	133.1	7.3
80°-90°	36.0	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°	486.4	26.5
0°-40°	797.0	43.5
0°-60°	1425.0	77.8
0°-90°	1832.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1832.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	624	624	624	624	625	59
15°	604	602	602	602	604	170
25°	561	559	557	556	557	259
35°	502	500	495	492	494	314
45°	429	426	421	418	422	331
55°	342	339	334	336	342	305
65°	243	240	236	245	252	239
75°	134	132	127	115	109	141
85°	30	30	31	31	30	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.7	627.7	627.7	627.7	627.7
2.5°	626.9	626.1	626.9	626.9	628.5
5°	624.4	623.6	624.4	624.4	625.2
7.5°	620.3	620.3	621.1	621.1	621.9
10°	617.0	616.1	616.1	616.1	617.8
12.5°	611.2	609.5	609.5	610.4	612.0
15°	603.7	602.1	602.1	602.1	603.7
17.5°	594.6	593.8	593.0	593.0	593.8
20°	584.7	583.1	582.2	582.2	583.1
22.5°	574.0	571.5	569.8	569.0	570.7
25°	560.7	559.1	557.4	555.8	557.4
27.5°	547.5	545.0	542.5	540.9	542.5
30°	532.6	531.0	527.6	525.2	526.8
32.5°	517.7	516.1	511.9	509.5	510.3
35°	502.0	499.5	495.4	492.1	493.7
37.5°	484.6	483.0	478.0	474.7	476.4
40°	467.3	464.8	459.8	456.5	458.2
42.5°	449.1	445.8	440.8	437.5	440.0
45°	429.2	425.9	421.0	418.5	421.8
47.5°	408.6	405.2	400.3	398.6	402.8
50°	387.1	384.6	378.8	378.8	382.9
52.5°	364.7	361.4	357.3	358.1	363.1
55°	341.6	339.1	334.1	335.8	341.6
57.5°	318.4	315.1	311.0	314.3	321.7
60°	293.6	290.3	286.2	291.9	299.4
62.5°	268.8	265.5	262.2	268.8	276.2
65°	243.1	239.8	236.5	244.8	252.2
67.5°	215.0	211.7	209.2	217.5	223.3
70°	187.7	184.4	184.4	185.3	187.7
72.5°	160.4	158.8	157.1	151.3	148.0
75°	134.0	131.5	127.4	115.0	109.2
77.5°	106.7	104.2	96.8	86.0	86.8
80°	81.0	78.6	69.5	72.0	73.6
82.5°	54.6	53.8	51.3	50.4	50.4
85°	29.8	29.8	30.6	30.6	29.8
87.5°	12.4	12.4	13.2	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)