

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: P393244

Luminaire Tested: **22EN-LD2-19-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393244
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-L93050-W2A-1-U (3500K)
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: 1863.0 lumens
Efficiency: N/A
Efficacy: 116.4 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

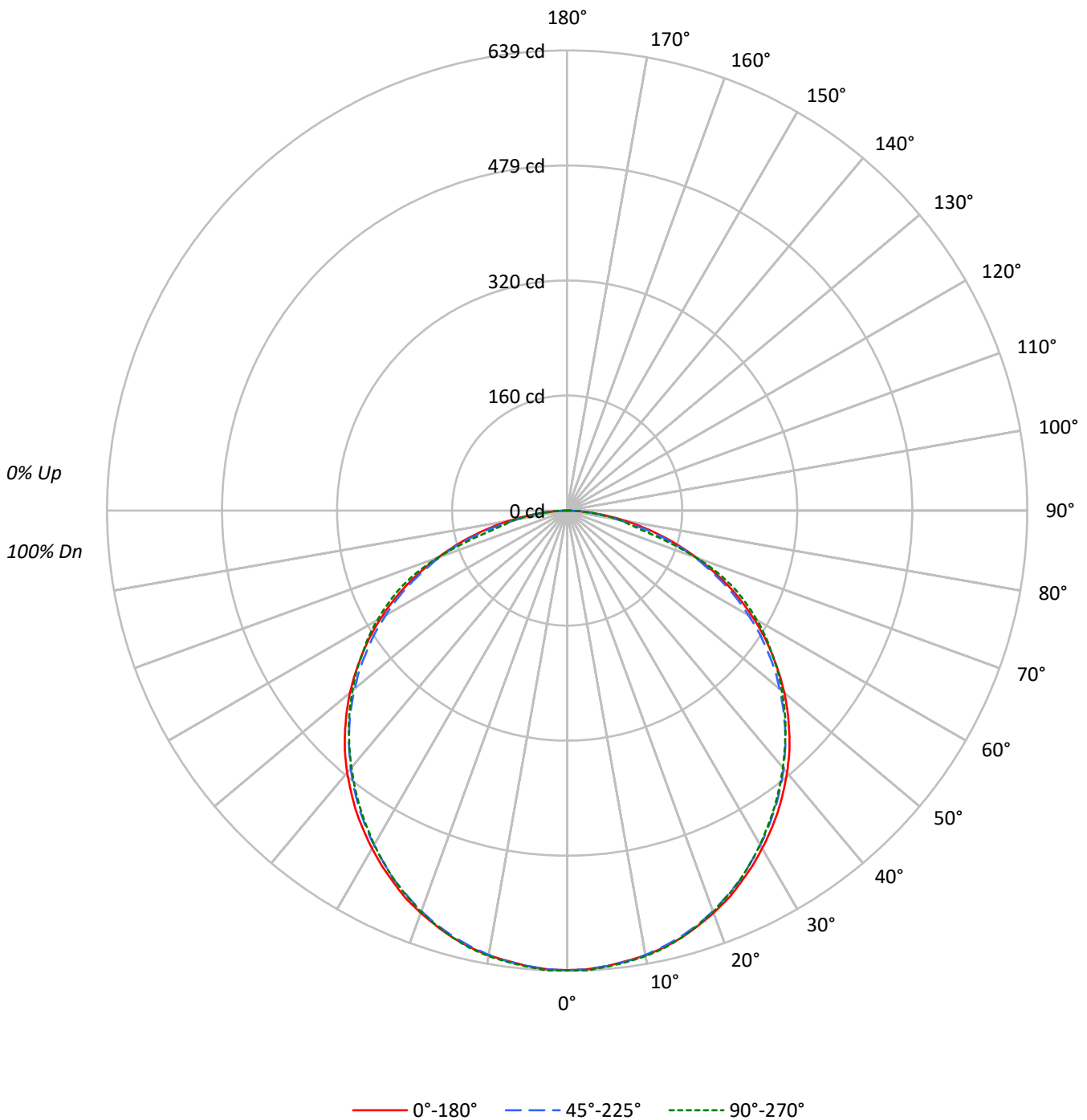
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1718	1718	1718
5°	1715	1715	1717
10°	1714	1712	1717
15°	1710	1706	1710
20°	1702	1695	1698
25°	1693	1683	1683
30°	1683	1667	1665
35°	1677	1655	1649
40°	1669	1643	1637
45°	1661	1629	1632
50°	1648	1612	1630
55°	1629	1594	1629
60°	1607	1566	1638
65°	1574	1531	1633
70°	1502	1475	1502
75°	1416	1346	1154
80°	1277	1094	1159
85°	936	960	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	3.2
10°-20°	172.9	9.3
20°-30°	261.3	14.0
30°-40°	315.8	17.0
40°-50°	331.6	17.8
50°-60°	307.0	16.5
60°-70°	242.1	13.0
70°-80°	135.4	7.3
80°-90°	36.6	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°	494.6	26.5
0°-40°	810.3	43.5
0°-60°	1448.9	77.8
0°-90°	1863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	635	634	635	635	636	60
15°	614	612	612	612	614	173
25°	570	568	567	565	567	263
35°	510	508	504	500	502	319
45°	436	433	428	426	429	337
55°	347	345	340	341	347	310
65°	247	244	240	249	256	243
75°	136	134	130	117	111	144
85°	30	30	31	31	30	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.3	638.3	638.3	638.3	638.3
2.5°	637.4	636.6	637.4	637.4	639.1
5°	634.9	634.1	634.9	634.9	635.7
7.5°	630.7	630.7	631.5	631.5	632.4
10°	627.3	626.5	626.5	626.5	628.2
12.5°	621.4	619.8	619.8	620.6	622.3
15°	613.9	612.2	612.2	612.2	613.9
17.5°	604.6	603.8	602.9	602.9	603.8
20°	594.5	592.9	592.0	592.0	592.9
22.5°	583.6	581.1	579.4	578.6	580.2
25°	570.1	568.5	566.8	565.1	566.8
27.5°	556.7	554.2	551.6	550.0	551.6
30°	541.6	539.9	536.5	534.0	535.7
32.5°	526.4	524.7	520.5	518.0	518.9
35°	510.4	507.9	503.7	500.4	502.0
37.5°	492.8	491.1	486.1	482.7	484.4
40°	475.1	472.6	467.6	464.2	465.9
42.5°	456.6	453.3	448.2	444.9	447.4
45°	436.4	433.1	428.0	425.5	428.9
47.5°	415.4	412.1	407.0	405.3	409.5
50°	393.6	391.0	385.1	385.1	389.3
52.5°	370.8	367.5	363.3	364.1	369.2
55°	347.3	344.8	339.7	341.4	347.3
57.5°	323.8	320.4	316.2	319.6	327.1
60°	298.5	295.2	291.0	296.8	304.4
62.5°	273.3	269.9	266.6	273.3	280.9
65°	247.2	243.9	240.5	248.9	256.5
67.5°	218.6	215.3	212.8	221.2	227.1
70°	190.9	187.5	187.5	188.4	190.9
72.5°	163.1	161.5	159.8	153.9	150.5
75°	136.2	133.7	129.5	116.9	111.0
77.5°	108.5	106.0	98.4	87.5	88.3
80°	82.4	79.9	70.6	73.2	74.8
82.5°	55.5	54.7	52.1	51.3	51.3
85°	30.3	30.3	31.1	31.1	30.3
87.5°	12.6	12.6	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)