

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: P393220

Luminaire Tested: **22EN-LD2-19-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393220
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 (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: 2098.2 lumens
Efficiency: N/A
Efficacy: 131.1 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

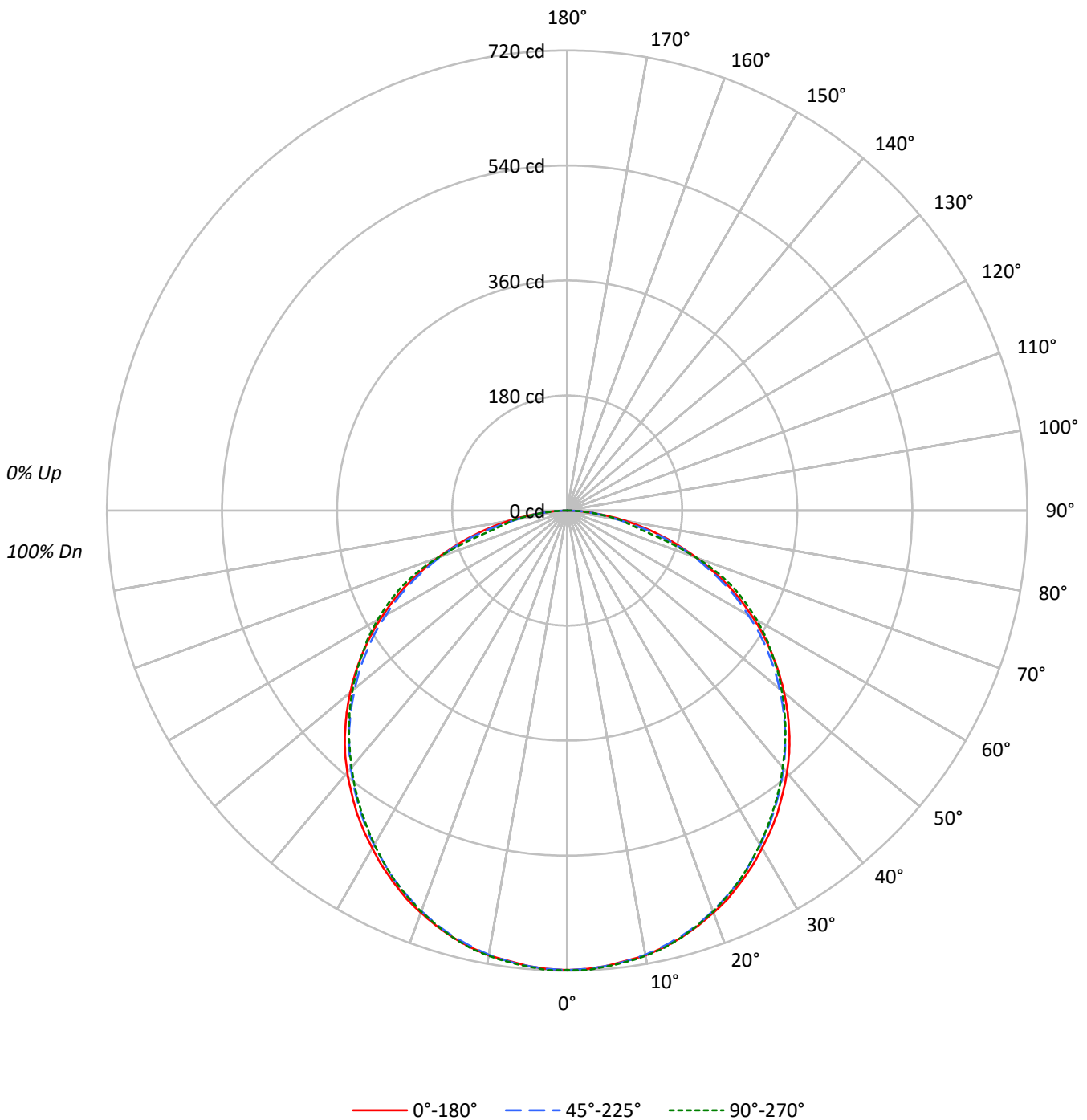
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1935	1935	1935
5°	1932	1932	1934
10°	1931	1928	1933
15°	1926	1921	1926
20°	1918	1910	1912
25°	1907	1896	1896
30°	1895	1878	1875
35°	1889	1864	1857
40°	1880	1850	1843
45°	1871	1835	1838
50°	1855	1816	1836
55°	1835	1795	1835
60°	1809	1764	1845
65°	1773	1725	1840
70°	1692	1662	1692
75°	1595	1517	1300
80°	1438	1234	1306
85°	1053	1081	1053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	3.2
10°-20°	194.7	9.3
20°-30°	294.3	14.0
30°-40°	355.7	17.0
40°-50°	373.5	17.8
50°-60°	345.7	16.5
60°-70°	272.7	13.0
70°-80°	152.5	7.3
80°-90°	41.2	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°	557.0	26.5
0°-40°	912.7	43.5
0°-60°	1631.8	77.8
0°-90°	2098.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2098.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	715	714	715	715	716	68
15°	691	690	690	690	691	195
25°	642	640	638	636	638	296
35°	575	572	567	564	565	360
45°	492	488	482	479	483	379
55°	391	388	383	384	391	350
65°	278	275	271	280	289	274
75°	153	151	146	132	125	162
85°	34	34	35	35	34	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	718.9	718.9	718.9	718.9	718.9
2.5°	717.9	717.0	717.9	717.9	719.8
5°	715.1	714.1	715.1	715.1	716.0
7.5°	710.3	710.3	711.3	711.3	712.2
10°	706.5	705.6	705.6	705.6	707.5
12.5°	699.9	698.0	698.0	699.0	700.9
15°	691.4	689.5	689.5	689.5	691.4
17.5°	681.0	680.0	679.1	679.1	680.0
20°	669.6	667.7	666.8	666.8	667.7
22.5°	657.3	654.5	652.6	651.6	653.5
25°	642.1	640.2	638.4	636.5	638.4
27.5°	627.0	624.1	621.3	619.4	621.3
30°	609.9	608.0	604.3	601.4	603.3
32.5°	592.9	591.0	586.3	583.4	584.4
35°	574.9	572.1	567.3	563.5	565.4
37.5°	555.0	553.1	547.4	543.6	545.5
40°	535.1	532.3	526.6	522.8	524.7
42.5°	514.3	510.5	504.8	501.0	503.9
45°	491.6	487.8	482.1	479.2	483.0
47.5°	467.9	464.1	458.4	456.5	461.2
50°	443.2	440.4	433.8	433.8	438.5
52.5°	417.7	413.9	409.2	410.1	415.8
55°	391.2	388.3	382.6	384.5	391.2
57.5°	364.6	360.8	356.1	359.9	368.4
60°	336.2	332.4	327.7	334.3	342.9
62.5°	307.8	304.0	300.2	307.8	316.3
65°	278.5	274.7	270.9	280.3	288.9
67.5°	246.2	242.5	239.6	249.1	255.7
70°	215.0	211.2	211.2	212.2	215.0
72.5°	183.7	181.8	180.0	173.3	169.5
75°	153.4	150.6	145.9	131.6	125.0
77.5°	122.2	119.3	110.8	98.5	99.4
80°	92.8	90.0	79.6	82.4	84.3
82.5°	62.5	61.6	58.7	57.8	57.8
85°	34.1	34.1	35.0	35.0	34.1
87.5°	14.2	14.2	15.2	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)