

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: P393221

Luminaire Tested: **22EN-LD2-19-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393221
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 (4000K)
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: 2069.4 lumens
Efficiency: N/A
Efficacy: 129.3 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

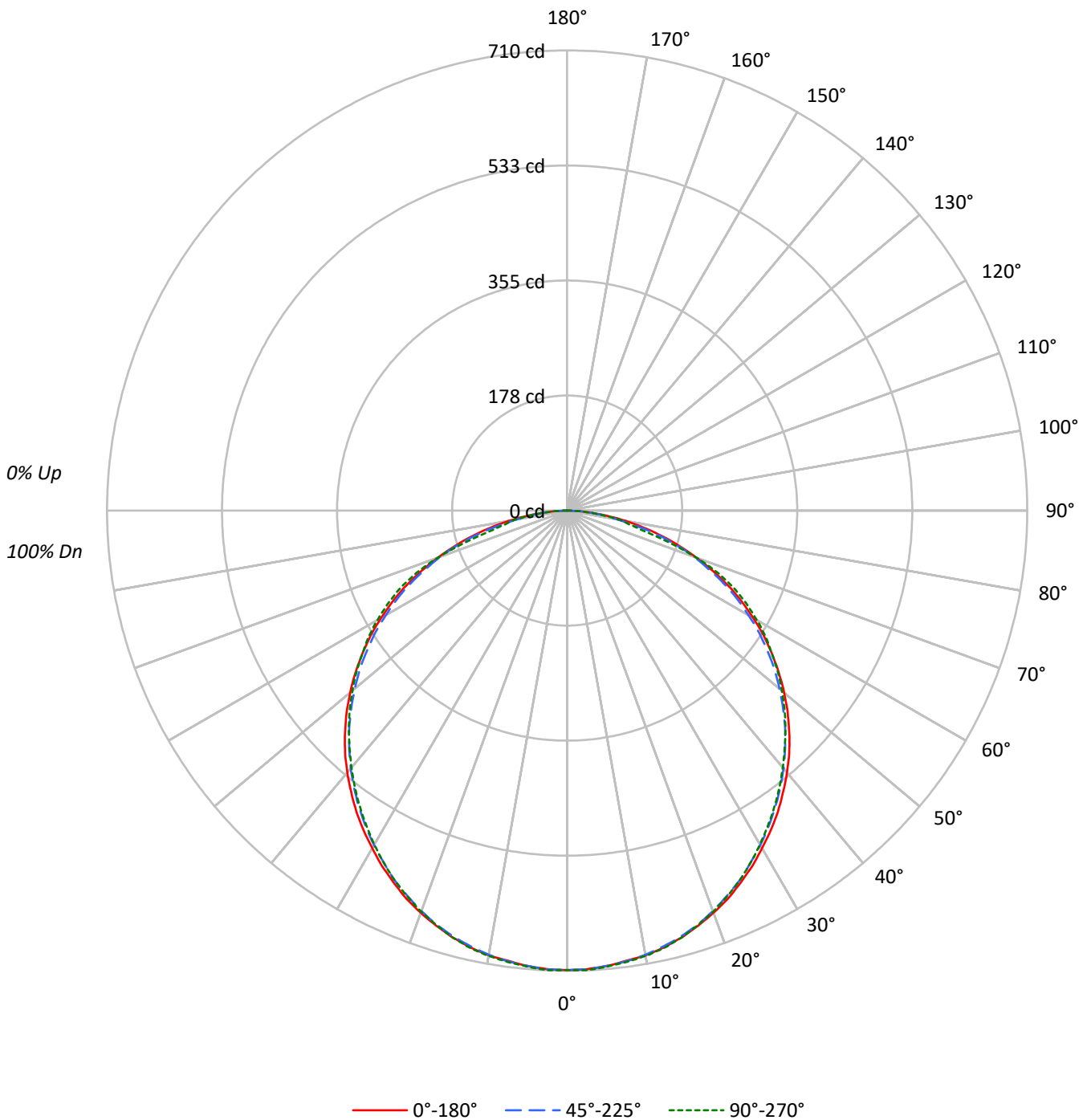
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1908	1908	1908
5°	1905	1905	1908
10°	1904	1902	1907
15°	1900	1895	1900
20°	1891	1883	1886
25°	1880	1869	1869
30°	1869	1852	1849
35°	1863	1838	1832
40°	1854	1825	1818
45°	1845	1810	1813
50°	1830	1791	1811
55°	1810	1771	1810
60°	1785	1739	1820
65°	1748	1701	1814
70°	1669	1639	1669
75°	1573	1496	1282
80°	1418	1216	1288
85°	1037	1068	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	3.2
10°-20°	192.0	9.3
20°-30°	290.3	14.0
30°-40°	350.8	17.0
40°-50°	368.4	17.8
50°-60°	341.0	16.5
60°-70°	268.9	13.0
70°-80°	150.4	7.3
80°-90°	40.6	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°	549.4	26.5
0°-40°	900.2	43.5
0°-60°	1609.5	77.8
0°-90°	2069.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	705	704	705	705	706	67
15°	682	680	680	680	682	192
25°	633	632	630	628	630	292
35°	567	564	560	556	558	355
45°	485	481	476	473	476	374
55°	386	383	377	379	386	345
65°	275	271	267	276	285	270
75°	151	148	144	130	123	159
85°	34	34	35	35	34	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	709.0	709.0	709.0	709.0	709.0
2.5°	708.1	707.1	708.1	708.1	709.9
5°	705.3	704.3	705.3	705.3	706.2
7.5°	700.6	700.6	701.5	701.5	702.5
10°	696.9	695.9	695.9	695.9	697.8
12.5°	690.3	688.5	688.5	689.4	691.3
15°	681.9	680.1	680.1	680.1	681.9
17.5°	671.6	670.7	669.8	669.8	670.7
20°	660.4	658.6	657.6	657.6	658.6
22.5°	648.3	645.5	643.6	642.7	644.6
25°	633.3	631.5	629.6	627.7	629.6
27.5°	618.4	615.6	612.8	610.9	612.8
30°	601.6	599.7	596.0	593.2	595.0
32.5°	584.8	582.9	578.2	575.4	576.4
35°	567.0	564.2	559.6	555.8	557.7
37.5°	547.4	545.5	539.9	536.2	538.1
40°	527.8	525.0	519.4	515.6	517.5
42.5°	507.2	503.5	497.9	494.2	497.0
45°	484.8	481.1	475.5	472.7	476.4
47.5°	461.5	457.7	452.1	450.3	454.9
50°	437.2	434.4	427.8	427.8	432.5
52.5°	412.0	408.2	403.6	404.5	410.1
55°	385.8	383.0	377.4	379.3	385.8
57.5°	359.6	355.9	351.2	355.0	363.4
60°	331.6	327.9	323.2	329.8	338.2
62.5°	303.6	299.9	296.1	303.6	312.0
65°	274.6	270.9	267.2	276.5	284.9
67.5°	242.9	239.1	236.3	245.7	252.2
70°	212.1	208.3	208.3	209.2	212.1
72.5°	181.2	179.4	177.5	170.9	167.2
75°	151.3	148.5	143.9	129.8	123.3
77.5°	120.5	117.7	109.3	97.2	98.1
80°	91.5	88.7	78.5	81.3	83.1
82.5°	61.7	60.7	57.9	57.0	57.0
85°	33.6	33.6	34.6	34.6	33.6
87.5°	14.0	14.0	14.9	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)