

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: P393014

Luminaire Tested: **14EN-LD2-25-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-50)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-25-UNV-L92765-W2A-1-U (4500K)
Description: 1X4 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2101.3 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

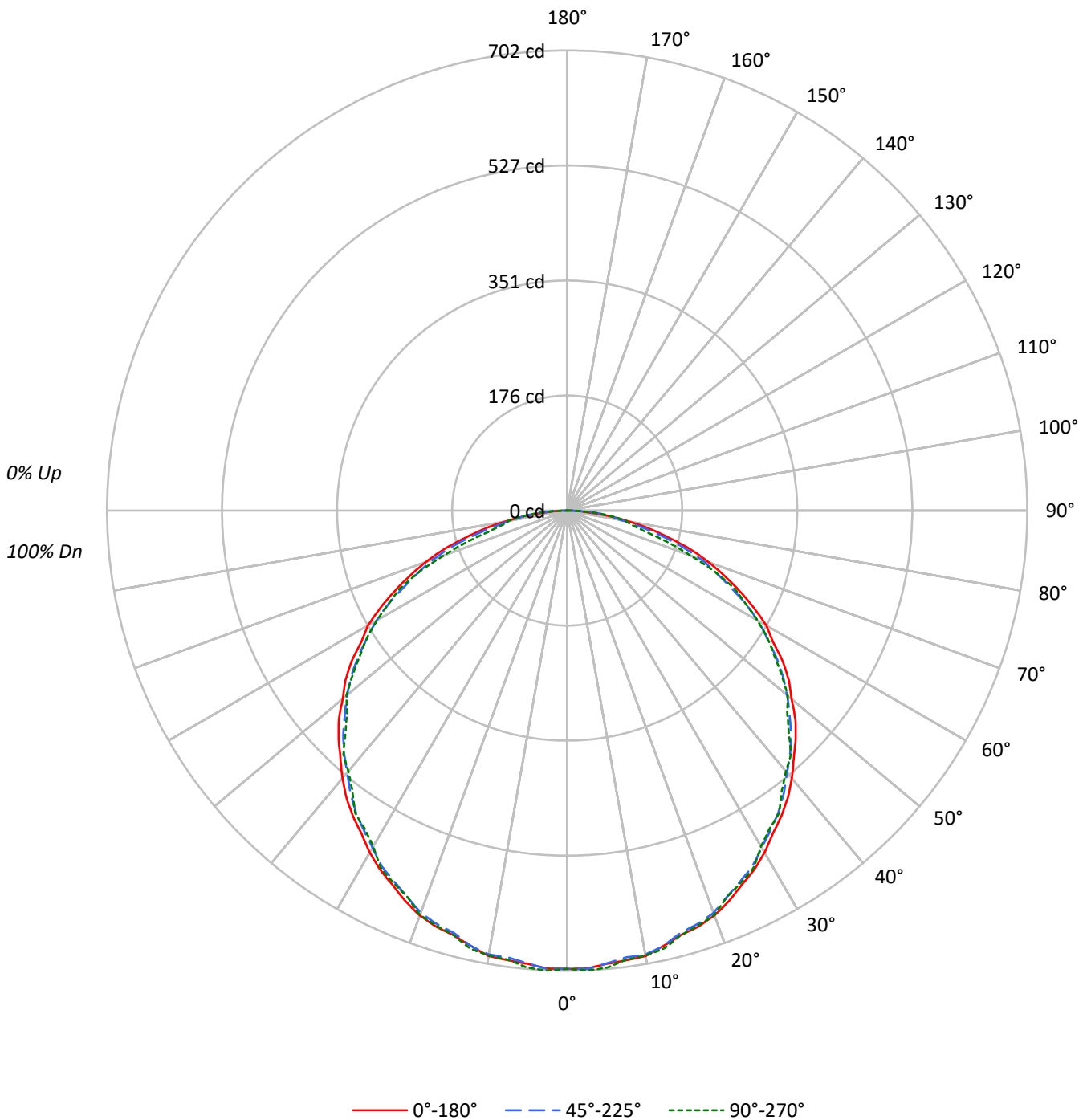
Input Watts (W): 26.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1881	1881	1881
5°	1875	1873	1891
10°	1886	1879	1883
15°	1867	1858	1867
20°	1882	1870	1880
25°	1871	1854	1861
30°	1871	1845	1838
35°	1870	1846	1851
40°	1873	1832	1824
45°	1876	1838	1819
50°	1871	1833	1840
55°	1885	1827	1811
60°	1888	1808	1804
65°	1847	1742	1794
70°	1803	1713	1577
75°	1682	1546	1273
80°	1489	1286	1401
85°	1065	1445	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.1
10°-20°	189.9	9.0
20°-30°	289.2	13.8
30°-40°	352.0	16.8
40°-50°	373.8	17.8
50°-60°	349.7	16.6
60°-70°	276.6	13.2
70°-80°	156.2	7.4
80°-90°	47.8	2.3
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°	545.3	25.9
0°-40°	897.3	42.7
0°-60°	1620.8	77.1
0°-90°	2101.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	694	694	693	697	700	66
15°	670	673	667	674	670	190
25°	630	631	624	625	627	291
35°	569	568	562	558	564	356
45°	493	489	483	481	478	380
55°	402	396	389	386	386	358
65°	290	284	274	277	282	287
75°	162	158	149	131	122	172
85°	34	39	47	47	45	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	699.1	699.1	699.1	699.1	699.1
2.5°	699.1	700.7	699.9	697.4	702.4
5°	694.2	694.2	693.3	696.6	699.9
7.5°	691.7	692.5	687.6	694.2	690.9
10°	690.1	691.7	687.6	686.8	689.2
12.5°	680.2	679.4	680.2	680.2	684.3
15°	670.3	672.8	667.1	673.6	670.3
17.5°	665.4	668.7	661.3	662.1	663.8
20°	657.2	653.9	653.1	650.6	656.4
22.5°	644.9	639.9	637.5	640.8	637.5
25°	630.1	630.9	624.3	625.2	626.8
27.5°	617.8	616.9	612.0	610.4	615.3
30°	602.2	597.2	593.9	594.8	591.5
32.5°	584.1	583.3	577.5	576.7	575.0
35°	569.3	568.5	561.9	557.8	563.5
37.5°	552.9	547.1	543.0	540.5	538.1
40°	533.1	529.9	521.6	520.0	519.2
42.5°	511.8	511.8	503.6	498.6	505.2
45°	492.9	488.8	483.0	481.4	478.1
47.5°	472.4	468.2	460.0	457.6	455.1
50°	446.9	446.9	437.9	434.6	439.5
52.5°	426.4	422.2	414.9	413.2	412.4
55°	401.7	396.0	389.4	386.1	386.1
57.5°	372.1	370.5	361.5	359.0	362.3
60°	350.8	344.2	336.0	333.5	335.2
62.5°	321.2	315.5	306.4	304.8	306.4
65°	290.0	284.2	273.6	276.8	281.8
67.5°	259.6	254.7	244.8	247.3	243.2
70°	229.2	224.3	217.7	208.7	200.4
72.5°	198.0	188.9	184.8	167.6	161.8
75°	161.8	157.7	148.7	131.4	122.4
77.5°	129.8	125.7	114.2	99.4	100.2
80°	96.1	99.4	83.0	87.9	90.4
82.5°	64.1	64.1	68.2	71.5	71.5
85°	34.5	38.6	46.8	46.8	45.2
87.5°	13.1	18.9	20.5	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)