

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: P393019

Luminaire Tested: **14EN-LD2-25-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393019
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-L93050-W2A-1-U (3000K)
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: 2101.9 lumens
Efficiency: N/A
Efficacy: 79.9 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

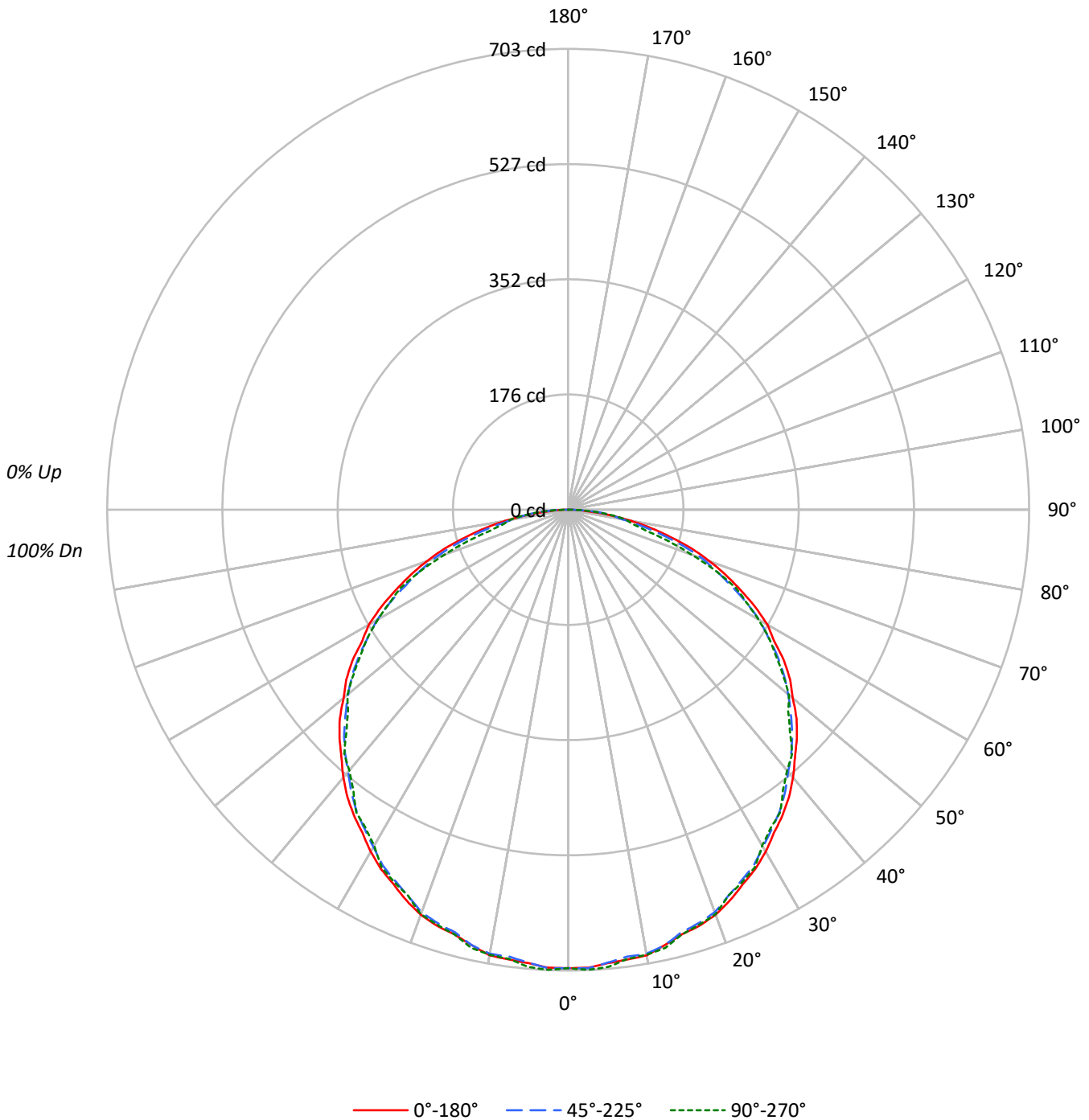
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1882	1882	1882
5°	1876	1874	1891
10°	1886	1879	1884
15°	1868	1859	1868
20°	1883	1871	1880
25°	1871	1854	1862
30°	1872	1846	1839
35°	1871	1847	1852
40°	1873	1833	1824
45°	1876	1839	1820
50°	1871	1834	1840
55°	1885	1827	1812
60°	1889	1809	1805
65°	1847	1742	1795
70°	1804	1714	1578
75°	1683	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°	190.0	9.0
20°-30°	289.3	13.8
30°-40°	352.1	16.8
40°-50°	373.9	17.8
50°-60°	349.8	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°	545.4	25.9
0°-40°	897.6	42.7
0°-60°	1621.3	77.1
0°-90°	2101.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	694	694	694	697	700	66
15°	670	673	667	674	670	190
25°	630	631	624	625	627	291
35°	570	569	562	558	564	356
45°	493	489	483	482	478	380
55°	402	396	390	386	386	358
65°	290	284	274	277	282	287
75°	162	158	149	132	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°	699.3	699.3	699.3	699.3	699.3
2.5°	699.3	700.9	700.1	697.7	702.6
5°	694.4	694.4	693.6	696.8	700.1
7.5°	691.9	692.7	687.8	694.4	691.1
10°	690.3	691.9	687.8	687.0	689.4
12.5°	680.4	679.6	680.4	680.4	684.5
15°	670.5	673.0	667.3	673.8	670.5
17.5°	665.6	668.9	661.5	662.3	664.0
20°	657.4	654.1	653.3	650.8	656.6
22.5°	645.1	640.1	637.7	641.0	637.7
25°	630.3	631.1	624.5	625.3	627.0
27.5°	618.0	617.1	612.2	610.6	615.5
30°	602.3	597.4	594.1	594.9	591.7
32.5°	584.3	583.4	577.7	576.9	575.2
35°	569.5	568.6	562.1	558.0	563.7
37.5°	553.0	547.3	543.2	540.7	538.2
40°	533.3	530.0	521.8	520.2	519.3
42.5°	511.9	511.9	503.7	498.8	505.4
45°	493.0	488.9	483.2	481.5	478.3
47.5°	472.5	468.4	460.2	457.7	455.2
50°	447.0	447.0	438.0	434.7	439.6
52.5°	426.5	422.4	415.0	413.3	412.5
55°	401.8	396.1	389.5	386.2	386.2
57.5°	372.2	370.6	361.6	359.1	362.4
60°	350.9	344.3	336.1	333.6	335.3
62.5°	321.3	315.5	306.5	304.9	306.5
65°	290.1	284.3	273.6	276.9	281.9
67.5°	259.7	254.7	244.9	247.3	243.2
70°	229.3	224.3	217.8	208.7	200.5
72.5°	198.0	189.0	184.9	167.6	161.9
75°	161.9	157.8	148.7	131.5	122.4
77.5°	129.8	125.7	114.2	99.4	100.3
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)