

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: P393018

Luminaire Tested: **14EN-LD2-25-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393018
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 (2700K)
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: 2208.6 lumens
Efficiency: N/A
Efficacy: 84.3 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

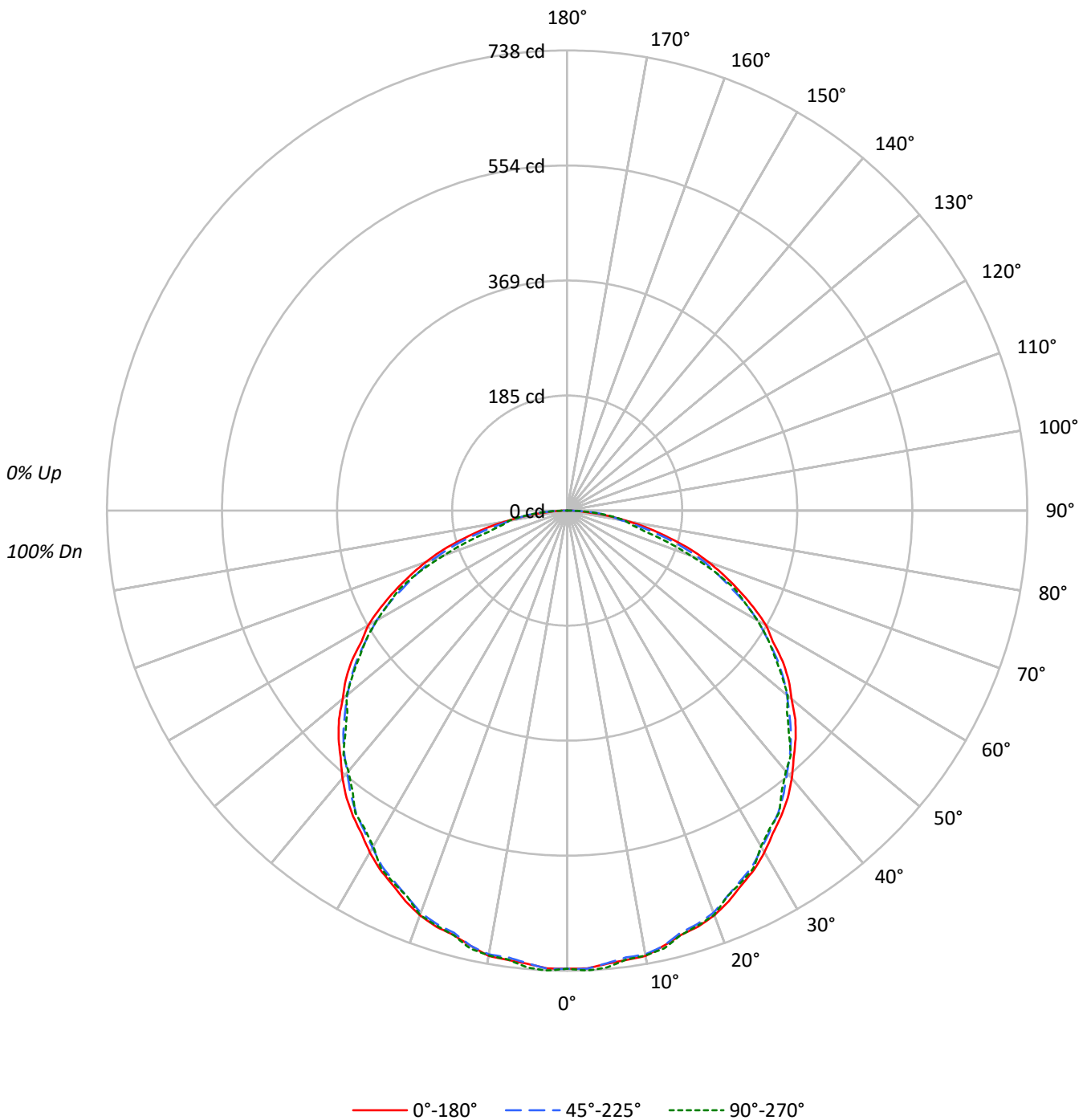
Input Watts (W): 26.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1977	1977	1977
5°	1971	1968	1987
10°	1982	1975	1979
15°	1963	1953	1963
20°	1978	1966	1976
25°	1966	1948	1956
30°	1967	1940	1932
35°	1966	1940	1946
40°	1969	1926	1917
45°	1972	1932	1912
50°	1966	1927	1934
55°	1981	1920	1904
60°	1984	1900	1896
65°	1941	1831	1886
70°	1895	1800	1658
75°	1769	1625	1338
80°	1565	1351	1472
85°	1121	1519	1467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.1
10°-20°	199.6	9.0
20°-30°	304.0	13.8
30°-40°	370.0	16.8
40°-50°	392.9	17.8
50°-60°	367.6	16.6
60°-70°	290.7	13.2
70°-80°	164.2	7.4
80°-90°	50.2	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°	573.1	25.9
0°-40°	943.1	42.7
0°-60°	1703.5	77.1
0°-90°	2208.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2208.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	730	730	729	732	736	70
15°	705	707	701	708	705	200
25°	662	663	656	657	659	306
35°	598	598	591	586	592	375
45°	518	514	508	506	502	399
55°	422	416	409	406	406	376
65°	305	299	288	291	296	302
75°	170	166	156	138	129	181
85°	36	41	49	49	48	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.8	734.8	734.8	734.8	734.8
2.5°	734.8	736.5	735.6	733.1	738.2
5°	729.6	729.6	728.7	732.2	735.6
7.5°	727.0	727.9	722.7	729.6	726.1
10°	725.3	727.0	722.7	721.8	724.4
12.5°	714.9	714.1	714.9	714.9	719.2
15°	704.6	707.2	701.1	708.0	704.6
17.5°	699.4	702.8	695.1	695.9	697.7
20°	690.7	687.3	686.4	683.8	689.9
22.5°	677.8	672.6	670.0	673.5	670.0
25°	662.3	663.1	656.2	657.1	658.8
27.5°	649.3	648.4	643.3	641.5	646.7
30°	632.9	627.7	624.3	625.1	621.7
32.5°	613.9	613.0	607.0	606.1	604.4
35°	598.4	597.5	590.6	586.3	592.3
37.5°	581.1	575.0	570.7	568.1	565.5
40°	560.4	556.9	548.3	546.6	545.7
42.5°	537.9	537.9	529.3	524.1	531.0
45°	518.1	513.7	507.7	506.0	502.5
47.5°	496.5	492.2	483.5	480.9	478.3
50°	469.7	469.7	460.2	456.8	461.9
52.5°	448.1	443.8	436.0	434.3	433.4
55°	422.2	416.2	409.3	405.8	405.8
57.5°	391.1	389.4	379.9	377.3	380.8
60°	368.7	361.8	353.1	350.6	352.3
62.5°	337.6	331.6	322.1	320.3	322.1
65°	304.8	298.7	287.5	291.0	296.2
67.5°	272.8	267.7	257.3	259.9	255.6
70°	240.9	235.7	228.8	219.3	210.7
72.5°	208.1	198.6	194.3	176.1	170.1
75°	170.1	165.8	156.3	138.1	128.7
77.5°	136.4	132.1	120.0	104.5	105.3
80°	101.0	104.5	87.2	92.4	95.0
82.5°	67.3	67.3	71.7	75.1	75.1
85°	36.3	40.6	49.2	49.2	47.5
87.5°	13.8	19.9	21.6	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)