

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: P393011

Luminaire Tested: **14EN-LD2-25-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393011
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 (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: 1980.2 lumens
Efficiency: N/A
Efficacy: 75.9 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

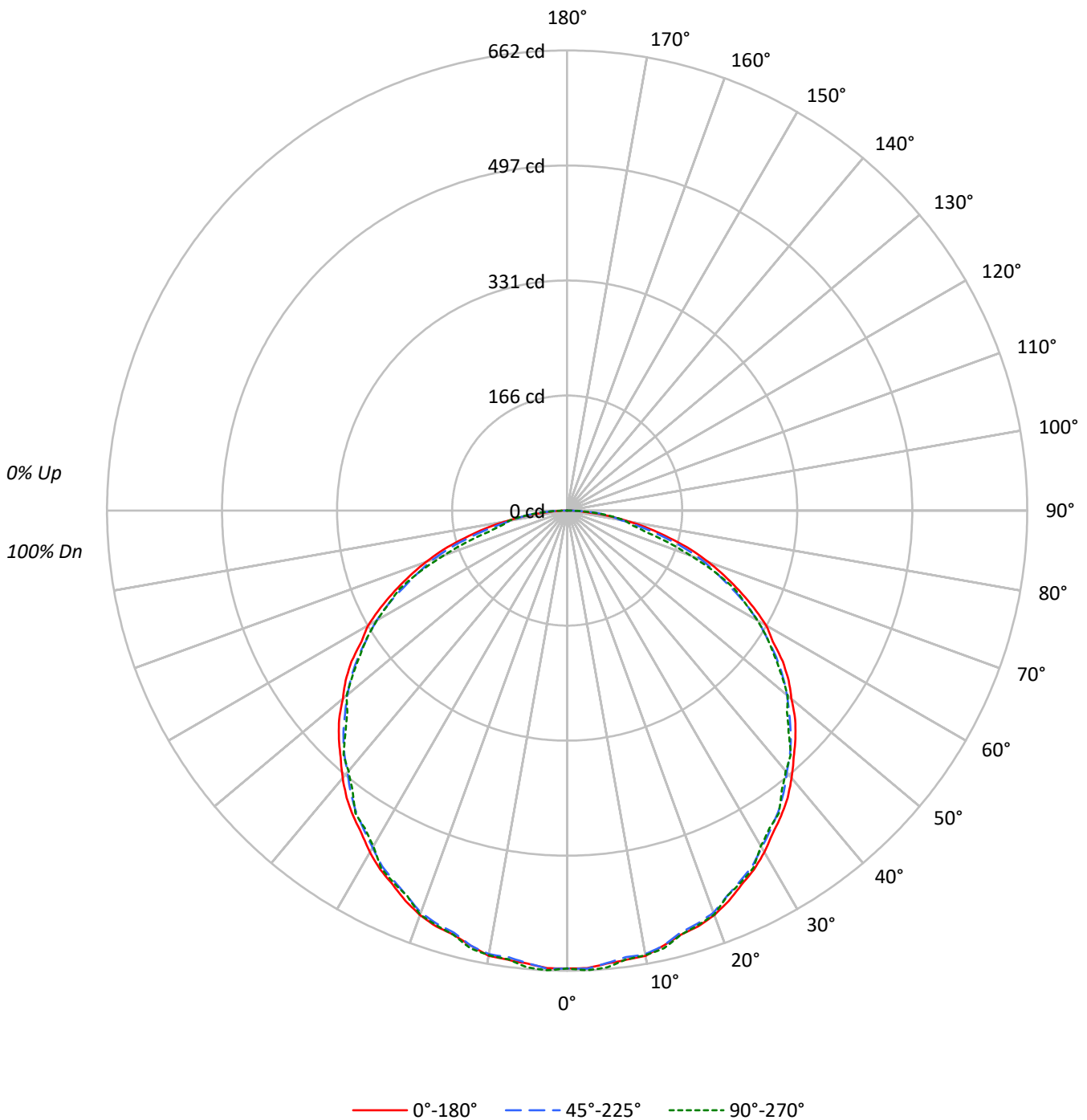
Input Watts (W): 26.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1773	1773	1773
5°	1767	1765	1782
10°	1777	1771	1775
15°	1760	1751	1760
20°	1773	1763	1771
25°	1763	1747	1754
30°	1763	1739	1732
35°	1762	1739	1745
40°	1765	1727	1719
45°	1768	1732	1715
50°	1763	1727	1734
55°	1776	1721	1707
60°	1779	1704	1700
65°	1740	1642	1691
70°	1699	1614	1486
75°	1586	1457	1199
80°	1404	1212	1320
85°	1003	1362	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	3.1
10°-20°	179.0	9.0
20°-30°	272.5	13.8
30°-40°	331.7	16.8
40°-50°	352.2	17.8
50°-60°	329.6	16.6
60°-70°	260.6	13.2
70°-80°	147.2	7.4
80°-90°	45.0	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°	513.8	25.9
0°-40°	845.6	42.7
0°-60°	1527.4	77.1
0°-90°	1980.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	654	654	653	656	660	62
15°	632	634	629	635	632	179
25°	594	594	588	589	591	274
35°	536	536	530	526	531	336
45°	464	461	455	454	451	358
55°	379	373	367	364	364	337
65°	273	268	258	261	266	271
75°	152	149	140	124	115	162
85°	32	36	44	44	43	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.8	658.8	658.8	658.8	658.8
2.5°	658.8	660.4	659.6	657.3	661.9
5°	654.2	654.2	653.4	656.5	659.6
7.5°	651.8	652.6	648.0	654.2	651.1
10°	650.3	651.8	648.0	647.2	649.5
12.5°	641.0	640.2	641.0	641.0	644.9
15°	631.7	634.0	628.6	634.8	631.7
17.5°	627.1	630.2	623.2	624.0	625.5
20°	619.3	616.2	615.5	613.1	618.5
22.5°	607.7	603.1	600.7	603.8	600.7
25°	593.8	594.5	588.4	589.1	590.7
27.5°	582.2	581.4	576.7	575.2	579.8
30°	567.5	562.8	559.7	560.5	557.4
32.5°	550.4	549.6	544.2	543.5	541.9
35°	536.5	535.7	529.5	525.6	531.1
37.5°	521.0	515.6	511.7	509.4	507.1
40°	502.4	499.3	491.6	490.0	489.3
42.5°	482.3	482.3	474.6	469.9	476.1
45°	464.5	460.6	455.2	453.7	450.6
47.5°	445.1	441.3	433.5	431.2	428.9
50°	421.1	421.1	412.6	409.5	414.2
52.5°	401.8	397.9	390.9	389.4	388.6
55°	378.6	373.1	366.9	363.9	363.9
57.5°	350.7	349.1	340.6	338.3	341.4
60°	330.6	324.4	316.6	314.3	315.9
62.5°	302.7	297.3	288.8	287.2	288.8
65°	273.3	267.9	257.8	260.9	265.5
67.5°	244.6	240.0	230.7	233.0	229.1
70°	216.0	211.3	205.2	196.6	188.9
72.5°	186.6	178.1	174.2	157.9	152.5
75°	152.5	148.6	140.1	123.9	115.3
77.5°	122.3	118.4	107.6	93.7	94.4
80°	90.6	93.7	78.2	82.8	85.2
82.5°	60.4	60.4	64.3	67.4	67.4
85°	32.5	36.4	44.1	44.1	42.6
87.5°	12.4	17.8	19.4	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)