

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: P392996

Luminaire Tested: **14EN-LD2-25-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392996
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-L82765-W2A-1-U (3500K)
Description: 1X4 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2422.6 lumens
Efficiency: N/A
Efficacy: 92.1 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

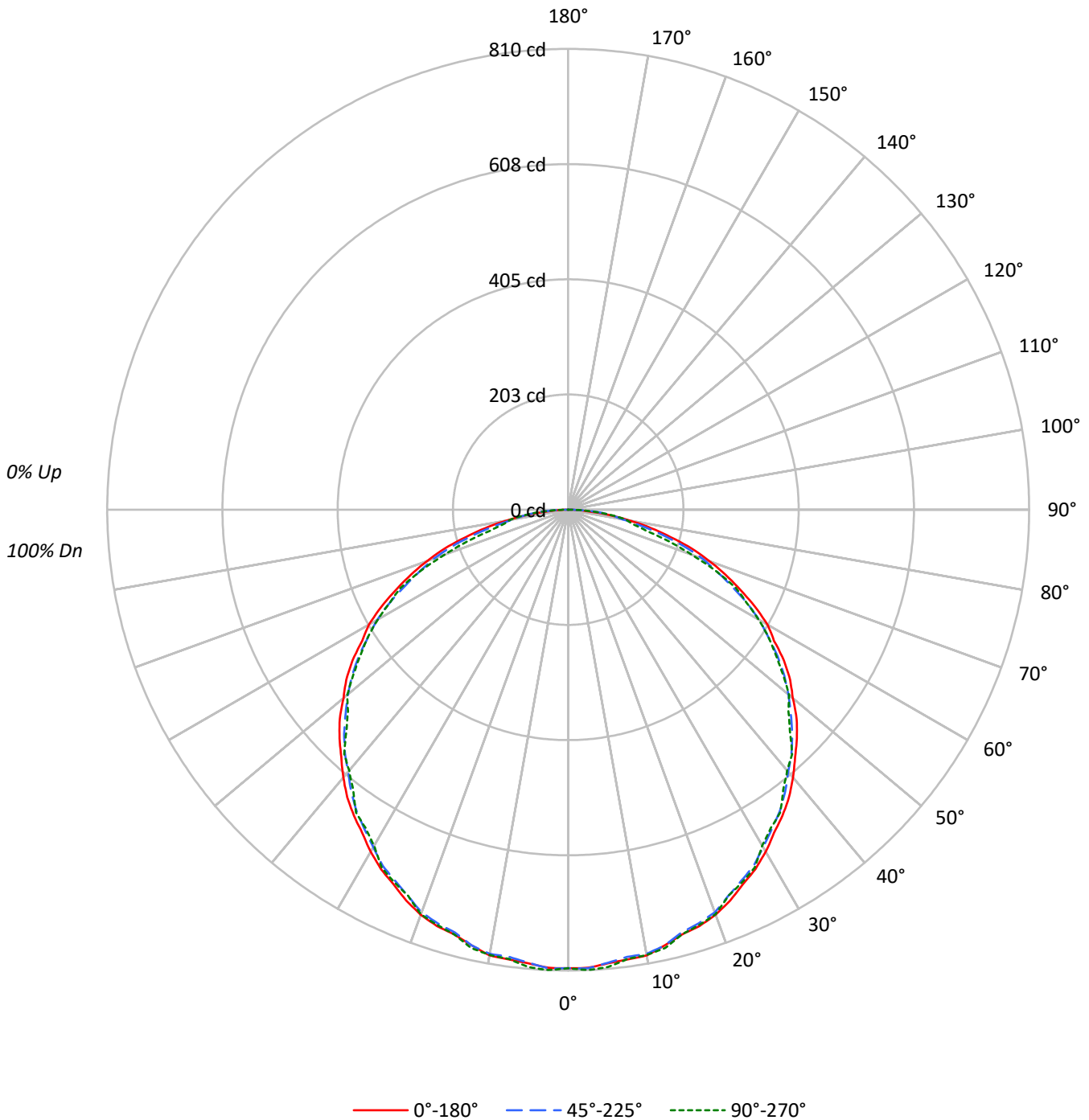
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2169	2169	2169
5°	2162	2159	2180
10°	2174	2166	2171
15°	2153	2143	2153
20°	2170	2156	2167
25°	2157	2137	2146
30°	2157	2128	2119
35°	2156	2128	2134
40°	2159	2113	2103
45°	2163	2119	2098
50°	2157	2113	2121
55°	2173	2106	2088
60°	2176	2085	2080
65°	2129	2008	2069
70°	2079	1975	1818
75°	1940	1782	1467
80°	1717	1483	1615
85°	1229	1667	1609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.1
10°-20°	219.0	9.0
20°-30°	333.4	13.8
30°-40°	405.9	16.8
40°-50°	430.9	17.8
50°-60°	403.2	16.6
60°-70°	318.8	13.2
70°-80°	180.1	7.4
80°-90°	55.1	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°	628.7	25.9
0°-40°	1034.5	42.7
0°-60°	1868.7	77.1
0°-90°	2422.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2422.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	800	800	799	803	807	76
15°	773	776	769	777	773	219
25°	726	727	720	721	723	336
35°	656	655	648	643	650	411
45°	568	564	557	555	551	438
55°	463	456	449	445	445	412
65°	334	328	315	319	325	331
75°	187	182	171	152	141	198
85°	40	44	54	54	52	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	806.0	806.0	806.0	806.0	806.0
2.5°	806.0	807.9	806.9	804.1	809.8
5°	800.3	800.3	799.4	803.2	806.9
7.5°	797.5	798.4	792.7	800.3	796.5
10°	795.6	797.5	792.7	791.8	794.6
12.5°	784.2	783.3	784.2	784.2	788.9
15°	772.8	775.7	769.1	776.6	772.8
17.5°	767.2	771.0	762.4	763.4	765.3
20°	757.7	753.9	753.0	750.1	756.7
22.5°	743.5	737.8	735.0	738.7	735.0
25°	726.4	727.4	719.8	720.8	722.6
27.5°	712.2	711.3	705.6	703.7	709.4
30°	694.2	688.6	684.8	685.7	681.9
32.5°	673.4	672.5	665.8	664.9	663.0
35°	656.4	655.4	647.8	643.1	649.7
37.5°	637.4	630.8	626.0	623.2	620.4
40°	614.7	610.9	601.4	599.5	598.6
42.5°	590.1	590.1	580.6	574.9	582.5
45°	568.3	563.5	556.9	555.0	551.2
47.5°	544.6	539.9	530.4	527.5	524.7
50°	515.2	515.2	504.8	501.0	506.7
52.5°	491.6	486.8	478.3	476.4	475.5
55°	463.1	456.5	448.9	445.1	445.1
57.5°	429.0	427.1	416.7	413.9	417.7
60°	404.4	396.8	387.4	384.5	386.4
62.5°	370.3	363.7	353.3	351.4	353.3
65°	334.3	327.7	315.4	319.2	324.9
67.5°	299.3	293.6	282.2	285.1	280.3
70°	264.2	258.6	251.0	240.6	231.1
72.5°	228.3	217.8	213.1	193.2	186.6
75°	186.6	181.8	171.4	151.5	141.1
77.5°	149.6	144.9	131.6	114.6	115.5
80°	110.8	114.6	95.7	101.3	104.2
82.5°	73.9	73.9	78.6	82.4	82.4
85°	39.8	44.5	54.0	54.0	52.1
87.5°	15.2	21.8	23.7	23.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)