

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: P392995

Luminaire Tested: **14EN-LD2-25-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392995  
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 (3000K)  
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: 2346.2 lumens  
Efficiency: N/A  
Efficacy: 89.2 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

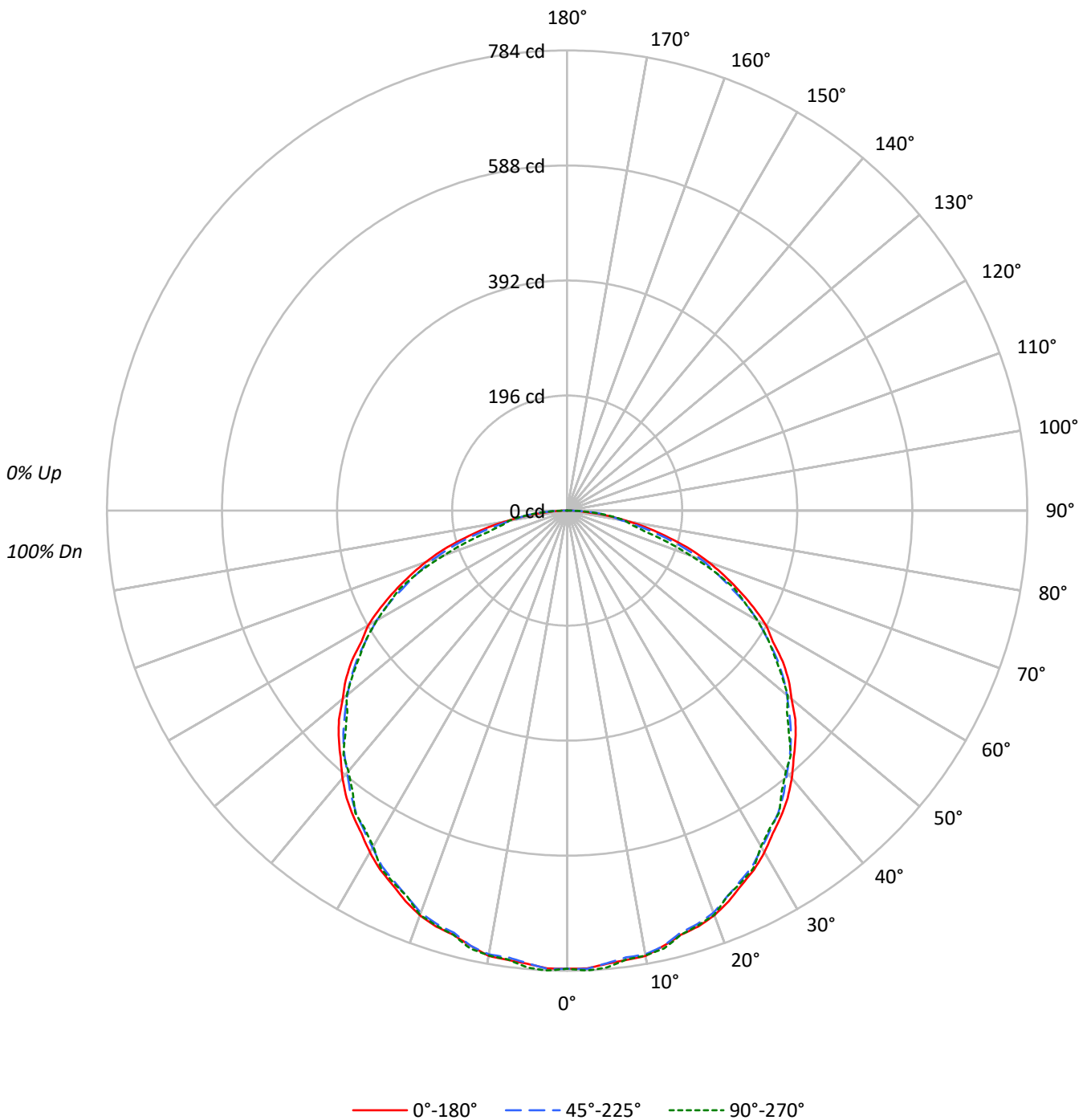
Input Watts (W): 26.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2101	2101	2101
5°	2093	2091	2111
10°	2105	2098	2103
15°	2085	2075	2085
20°	2101	2088	2099
25°	2089	2070	2078
30°	2089	2060	2052
35°	2088	2061	2067
40°	2091	2046	2036
45°	2094	2052	2031
50°	2089	2047	2054
55°	2104	2040	2023
60°	2108	2019	2014
65°	2062	1945	2003
70°	2013	1913	1761
75°	1879	1726	1421
80°	1663	1435	1564
85°	1189	1615	1556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	3.1
10°-20°	212.0	9.0
20°-30°	322.9	13.8
30°-40°	393.0	16.8
40°-50°	417.3	17.8
50°-60°	390.5	16.6
60°-70°	308.8	13.2
70°-80°	174.4	7.4
80°-90°	53.3	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°	608.8	25.9
0°-40°	1001.8	42.7
0°-60°	1809.7	77.1
0°-90°	2346.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2346.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	775	775	774	778	782	74
15°	748	751	745	752	748	212
25°	704	704	697	698	700	325
35°	636	635	627	623	629	398
45°	550	546	539	538	534	424
55°	448	442	435	431	431	399
65°	324	317	305	309	315	321
75°	181	176	166	147	137	192
85°	38	43	52	52	50	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	780.6	780.6	780.6	780.6	780.6
2.5°	780.6	782.4	781.5	778.7	784.2
5°	775.0	775.0	774.1	777.8	781.5
7.5°	772.3	773.2	767.7	775.0	771.4
10°	770.5	772.3	767.7	766.8	769.5
12.5°	759.5	758.5	759.5	759.5	764.0
15°	748.4	751.2	744.8	752.1	748.4
17.5°	742.9	746.6	738.4	739.3	741.1
20°	733.8	730.1	729.2	726.4	732.9
22.5°	720.0	714.5	711.8	715.4	711.8
25°	703.5	704.4	697.1	698.0	699.8
27.5°	689.7	688.8	683.3	681.5	687.0
30°	672.3	666.8	663.1	664.1	660.4
32.5°	652.1	651.2	644.8	643.9	642.1
35°	635.6	634.7	627.4	622.8	629.2
37.5°	617.3	610.9	606.3	603.5	600.8
40°	595.3	591.6	582.4	580.6	579.7
42.5°	571.4	571.4	562.3	556.8	564.1
45°	550.3	545.7	539.3	537.5	533.8
47.5°	527.4	522.8	513.6	510.9	508.1
50°	499.0	499.0	488.9	485.2	490.7
52.5°	476.0	471.4	463.2	461.4	460.4
55°	448.5	442.1	434.8	431.1	431.1
57.5°	415.5	413.7	403.6	400.8	404.5
60°	391.7	384.3	375.1	372.4	374.2
62.5°	358.6	352.2	342.1	340.3	342.1
65°	323.8	317.4	305.4	309.1	314.6
67.5°	289.8	284.3	273.3	276.1	271.5
70°	255.9	250.4	243.1	233.0	223.8
72.5°	221.0	211.0	206.4	187.1	180.7
75°	180.7	176.1	166.0	146.8	136.7
77.5°	144.9	140.3	127.5	111.0	111.9
80°	107.3	111.0	92.6	98.1	100.9
82.5°	71.5	71.5	76.1	79.8	79.8
85°	38.5	43.1	52.3	52.3	50.4
87.5°	14.7	21.1	22.9	22.9	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)