

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: P392999

Luminaire Tested: **14EN-LD2-25-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392999
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 (5000K)
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: 2456.3 lumens
Efficiency: N/A
Efficacy: 94.1 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

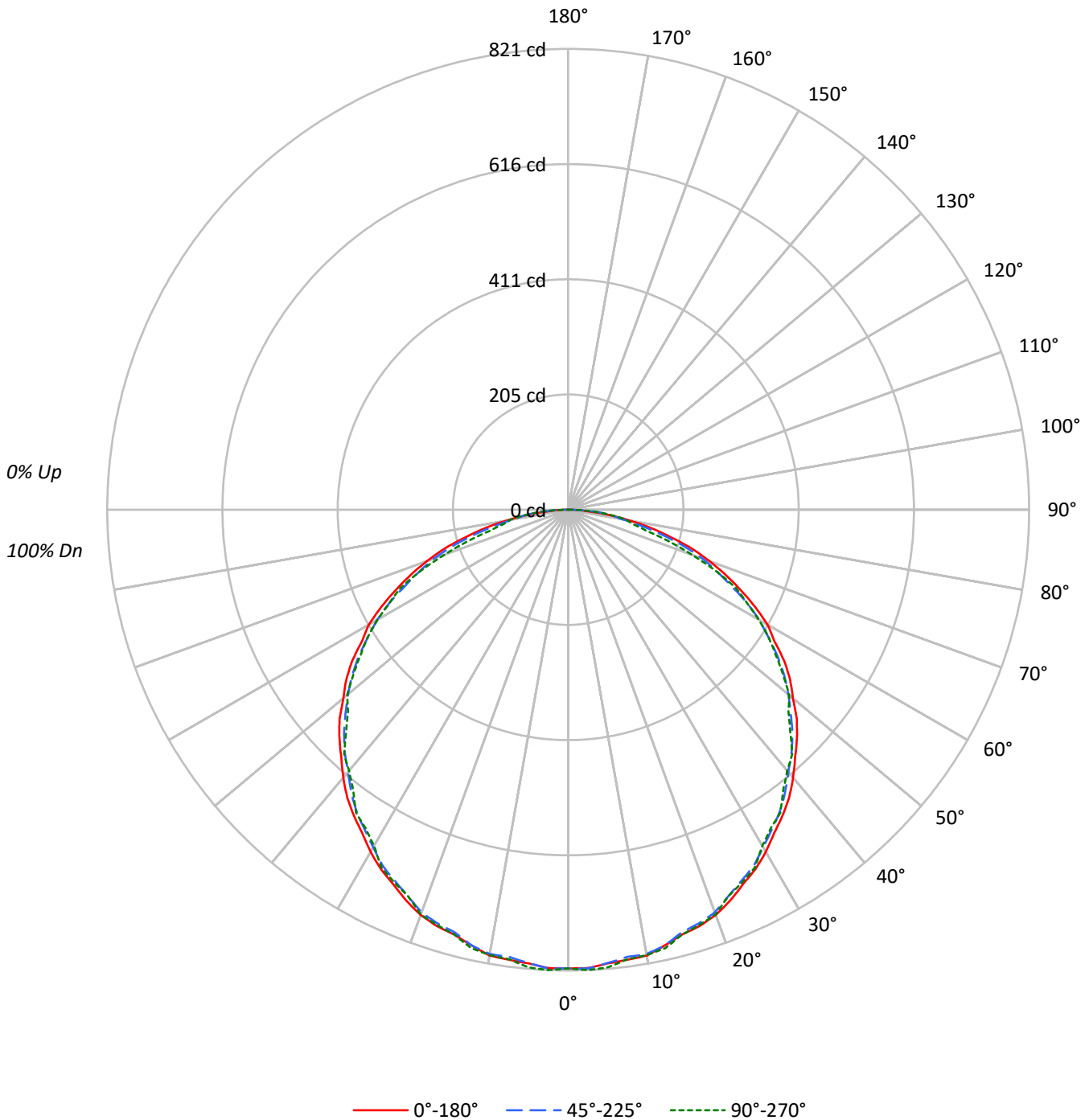
Input Watts (W): 26.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P392999

CATALOG NUMBER: 14EN-LD2-25-UNV-L82765-W2A-1-U (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P392999

CATALOG NUMBER: 14EN-LD2-25-UNV-L82765-W2A-1-U (5000K)

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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49					49			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42					42			
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36					36			
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29					29			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26					26			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2199	2199	2199
5°	2192	2189	2210
10°	2204	2196	2202
15°	2183	2172	2183
20°	2200	2186	2197
25°	2187	2167	2176
30°	2187	2157	2148
35°	2186	2158	2164
40°	2189	2142	2132
45°	2193	2149	2127
50°	2187	2143	2151
55°	2203	2136	2117
60°	2207	2114	2109
65°	2159	2036	2097
70°	2108	2002	1843
75°	1967	1807	1488
80°	1742	1503	1636
85°	1244	1689	1630



TEST NUMBER: P392999

CATALOG NUMBER: 14EN-LD2-25-UNV-L82765-W2A-1-U (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.1
10°-20°	222.0	9.0
20°-30°	338.1	13.8
30°-40°	411.5	16.8
40°-50°	436.9	17.8
50°-60°	408.8	16.6
60°-70°	323.3	13.2
70°-80°	182.6	7.4
80°-90°	55.8	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°	637.4	25.9
0°-40°	1048.9	42.7
0°-60°	1894.6	77.1
0°-90°	2456.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	811	811	810	814	818	77
15°	784	786	780	787	784	222
25°	736	738	730	731	733	340
35°	666	664	657	652	659	417
45°	576	571	565	563	559	444
55°	470	463	455	451	451	418
65°	339	332	320	324	329	336
75°	189	184	174	154	143	201
85°	40	45	55	55	53	51
90°	0	0	0	0	0	



TEST NUMBER: P392999

CATALOG NUMBER: 14EN-LD2-25-UNV-L82765-W2A-1-U (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.2	817.2	817.2	817.2	817.2
2.5°	817.2	819.1	818.2	815.3	821.0
5°	811.4	811.4	810.5	814.3	818.2
7.5°	808.5	809.5	803.7	811.4	807.6
10°	806.6	808.5	803.7	802.8	805.7
12.5°	795.1	794.1	795.1	795.1	799.9
15°	783.6	786.5	779.7	787.4	783.6
17.5°	777.8	781.7	773.0	774.0	775.9
20°	768.2	764.4	763.4	760.5	767.3
22.5°	753.8	748.1	745.2	749.0	745.2
25°	736.5	737.5	729.8	730.8	732.7
27.5°	722.1	721.2	715.4	713.5	719.2
30°	703.9	698.1	694.3	695.2	691.4
32.5°	682.8	681.8	675.1	674.1	672.2
35°	665.5	664.5	656.8	652.0	658.7
37.5°	646.3	639.5	634.7	631.9	629.0
40°	623.2	619.4	609.8	607.9	606.9
42.5°	598.3	598.3	588.6	582.9	590.6
45°	576.2	571.4	564.6	562.7	558.9
47.5°	552.2	547.4	537.8	534.9	532.0
50°	522.4	522.4	511.8	508.0	513.7
52.5°	498.4	493.6	484.9	483.0	482.1
55°	469.6	462.9	455.2	451.3	451.3
57.5°	435.0	433.1	422.5	419.6	423.5
60°	410.0	402.4	392.8	389.9	391.8
62.5°	375.5	368.7	358.2	356.3	358.2
65°	339.0	332.3	319.8	323.6	329.4
67.5°	303.4	297.7	286.2	289.0	284.2
70°	267.9	262.2	254.5	243.9	234.3
72.5°	231.4	220.9	216.1	195.9	189.2
75°	189.2	184.4	173.8	153.6	143.1
77.5°	151.7	146.9	133.5	116.2	117.2
80°	112.4	116.2	97.0	102.7	105.6
82.5°	74.9	74.9	79.7	83.5	83.5
85°	40.3	45.1	54.7	54.7	52.8
87.5°	15.4	22.1	24.0	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)