

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: P392998

Luminaire Tested: **14EN-LD2-25-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392998
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 (4500K)
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: 2460.3 lumens
Efficiency: N/A
Efficacy: 93.9 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

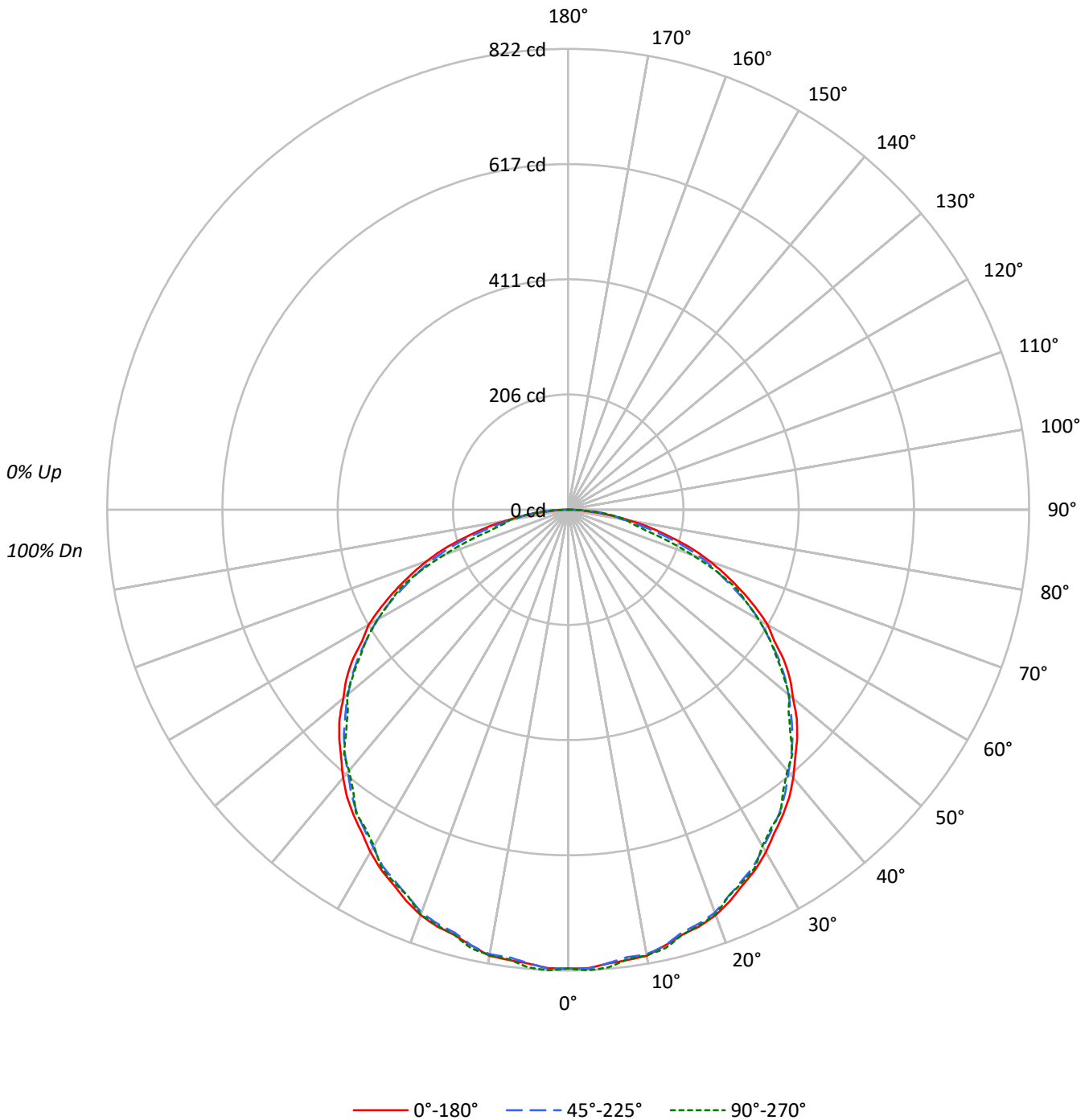
Input Watts (W): 26.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P392998

CATALOG NUMBER: 14EN-LD2-25-UNV-L82765-W2A-1-U (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P392998

CATALOG NUMBER: 14EN-LD2-25-UNV-L82765-W2A-1-U (4500K)

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°	2203	2203	2203
5°	2195	2193	2214
10°	2208	2200	2205
15°	2187	2176	2187
20°	2204	2190	2201
25°	2190	2170	2179
30°	2191	2161	2152
35°	2190	2161	2167
40°	2193	2146	2135
45°	2196	2152	2130
50°	2190	2146	2154
55°	2206	2139	2121
60°	2210	2117	2112
65°	2162	2039	2101
70°	2112	2006	1847
75°	1970	1810	1490
80°	1743	1505	1640
85°	1247	1692	1633



TEST NUMBER: P392998

CATALOG NUMBER: 14EN-LD2-25-UNV-L82765-W2A-1-U (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	3.1
10°-20°	222.4	9.0
20°-30°	338.6	13.8
30°-40°	412.2	16.8
40°-50°	437.6	17.8
50°-60°	409.5	16.6
60°-70°	323.8	13.2
70°-80°	182.9	7.4
80°-90°	55.9	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°	638.4	25.9
0°-40°	1050.6	42.7
0°-60°	1897.7	77.1
0°-90°	2460.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	813	813	812	816	820	77
15°	785	788	781	789	785	223
25°	738	739	731	732	734	341
35°	666	666	658	653	660	417
45°	577	572	566	564	560	445
55°	470	464	456	452	452	419
65°	340	333	320	324	330	336
75°	190	185	174	154	143	201
85°	40	45	55	55	53	51
90°	0	0	0	0	0	



TEST NUMBER: P392998

CATALOG NUMBER: 14EN-LD2-25-UNV-L82765-W2A-1-U (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.5	818.5	818.5	818.5	818.5
2.5°	818.5	820.4	819.5	816.6	822.4
5°	812.7	812.7	811.8	815.6	819.5
7.5°	809.9	810.8	805.1	812.7	808.9
10°	807.9	809.9	805.1	804.1	807.0
12.5°	796.4	795.4	796.4	796.4	801.2
15°	784.9	787.7	781.0	788.7	784.9
17.5°	779.1	782.9	774.3	775.2	777.2
20°	769.5	765.6	764.7	761.8	768.5
22.5°	755.0	749.3	746.4	750.2	746.4
25°	737.7	738.7	731.0	732.0	733.9
27.5°	723.3	722.3	716.6	714.6	720.4
30°	705.0	699.3	695.4	696.4	692.5
32.5°	683.9	682.9	676.2	675.2	673.3
35°	666.5	665.6	657.9	653.1	659.8
37.5°	647.3	640.6	635.8	632.9	630.0
40°	624.2	620.4	610.8	608.8	607.9
42.5°	599.2	599.2	589.6	583.8	591.5
45°	577.1	572.3	565.6	563.6	559.8
47.5°	553.1	548.2	538.6	535.7	532.9
50°	523.2	523.2	512.7	508.8	514.6
52.5°	499.2	494.4	485.7	483.8	482.8
55°	470.3	463.6	455.9	452.1	452.1
57.5°	435.7	433.8	423.2	420.3	424.2
60°	410.7	403.0	393.4	390.5	392.4
62.5°	376.1	369.3	358.8	356.8	358.8
65°	339.5	332.8	320.3	324.1	329.9
67.5°	303.9	298.2	286.6	289.5	284.7
70°	268.4	262.6	254.9	244.3	234.7
72.5°	231.8	221.2	216.4	196.2	189.5
75°	189.5	184.7	174.1	153.9	143.3
77.5°	152.0	147.2	133.7	116.4	117.3
80°	112.5	116.4	97.1	102.9	105.8
82.5°	75.0	75.0	79.8	83.7	83.7
85°	40.4	45.2	54.8	54.8	52.9
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)