

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: P392904

Luminaire Tested: **12EN-LD2-35-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-35-UNV-L82765-W2A-1-U (5700K)
Description: 1X2 ENCOUNTER, 3500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3366.9 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

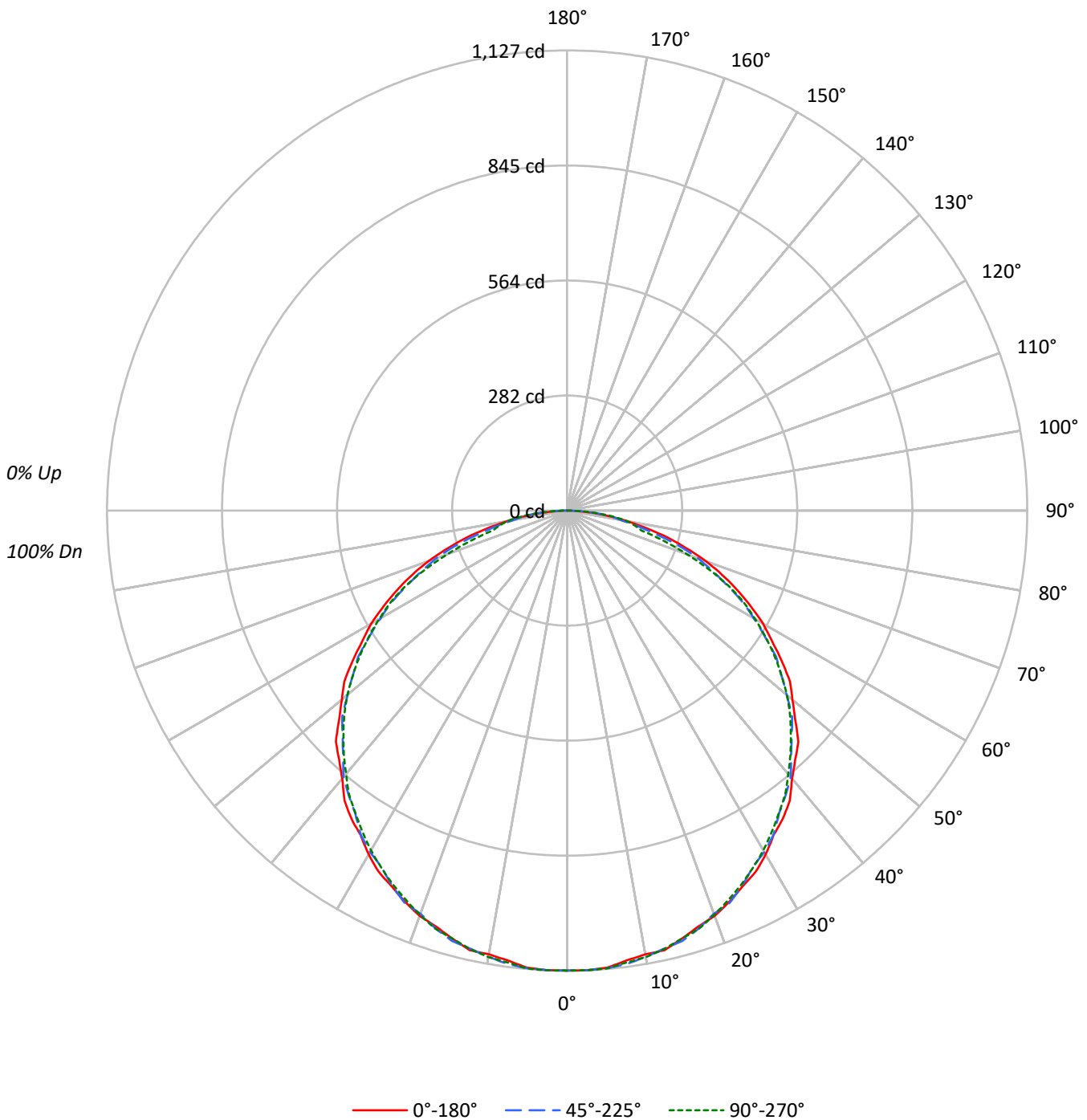
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6064	6064	6064
5°	6071	6077	6082
10°	6031	6063	6068
15°	6047	6079	6047
20°	6050	6017	6034
25°	6033	6021	5998
30°	6044	6001	5972
35°	6054	5946	5940
40°	6020	5986	5918
45°	6096	5920	5898
50°	6028	5875	5883
55°	6014	5861	5815
60°	5965	5685	5726
65°	5843	5499	5560
70°	5673	5353	4914
75°	5271	4749	3928
80°	4599	4091	4630
85°	3693	4403	4465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.2
10°-20°	306.9	9.1
20°-30°	467.2	13.9
30°-40°	569.8	16.9
40°-50°	603.1	17.9
50°-60°	558.6	16.6
60°-70°	435.1	12.9
70°-80°	244.1	7.2
80°-90°	75.3	2.2
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°	880.8	26.2
0°-40°	1450.7	43.1
0°-60°	2612.4	77.6
0°-90°	3366.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3366.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1124	1125	1125	1127	1126	106
15°	1085	1087	1091	1087	1085	306
25°	1016	1014	1014	1007	1010	469
35°	921	914	905	903	904	576
45°	801	791	778	776	775	613
55°	641	636	625	616	620	573
65°	459	450	432	435	437	454
75°	254	246	228	204	189	267
85°	60	62	71	72	72	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1126.7	1126.7	1126.7	1126.7	1126.7
2.5°	1126.7	1124.8	1126.7	1125.7	1126.7
5°	1123.8	1124.8	1124.8	1126.7	1125.7
7.5°	1111.3	1116.1	1120.0	1119.0	1116.1
10°	1103.6	1108.4	1109.4	1107.4	1110.3
12.5°	1102.6	1103.6	1098.8	1101.6	1099.7
15°	1085.3	1087.2	1091.0	1087.2	1085.3
17.5°	1067.9	1071.8	1072.7	1069.8	1073.7
20°	1056.3	1059.2	1050.6	1054.4	1053.5
22.5°	1037.1	1038.0	1040.0	1033.2	1032.2
25°	1015.9	1013.9	1013.9	1007.2	1010.1
27.5°	998.5	991.8	984.1	987.9	986.0
30°	972.5	971.5	965.7	961.9	960.9
32.5°	941.6	942.6	940.7	932.0	933.0
35°	921.4	913.7	905.0	903.1	904.1
37.5°	895.4	888.6	879.0	876.1	877.1
40°	856.8	855.9	852.0	840.4	842.4
42.5°	827.0	821.2	811.5	806.7	809.6
45°	800.9	791.3	777.8	775.9	774.9
47.5°	757.6	755.6	747.0	736.4	740.2
50°	720.0	716.1	701.7	695.9	702.6
52.5°	688.2	678.5	661.2	660.2	661.2
55°	640.9	636.1	624.6	615.9	619.7
57.5°	594.7	590.8	574.4	571.5	576.4
60°	554.2	547.4	528.2	527.2	532.0
62.5°	506.0	501.2	483.8	483.8	488.7
65°	458.8	450.1	431.8	434.7	436.6
67.5°	410.6	400.0	383.6	380.7	374.9
70°	360.5	349.9	340.2	321.9	312.3
72.5°	305.5	297.8	287.2	259.3	249.6
75°	253.5	245.8	228.4	204.3	188.9
77.5°	198.5	195.7	175.4	165.8	169.6
80°	148.4	147.5	132.0	144.6	149.4
82.5°	101.2	97.3	107.0	112.8	112.8
85°	59.8	61.7	71.3	72.3	72.3
87.5°	24.1	28.0	32.8	34.7	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)