

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: P393332

Luminaire Tested: **22EN-LD2-34-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-34-UNV-L92765-W2A-1-U (3500K)
Description: 2X2 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2715.7 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

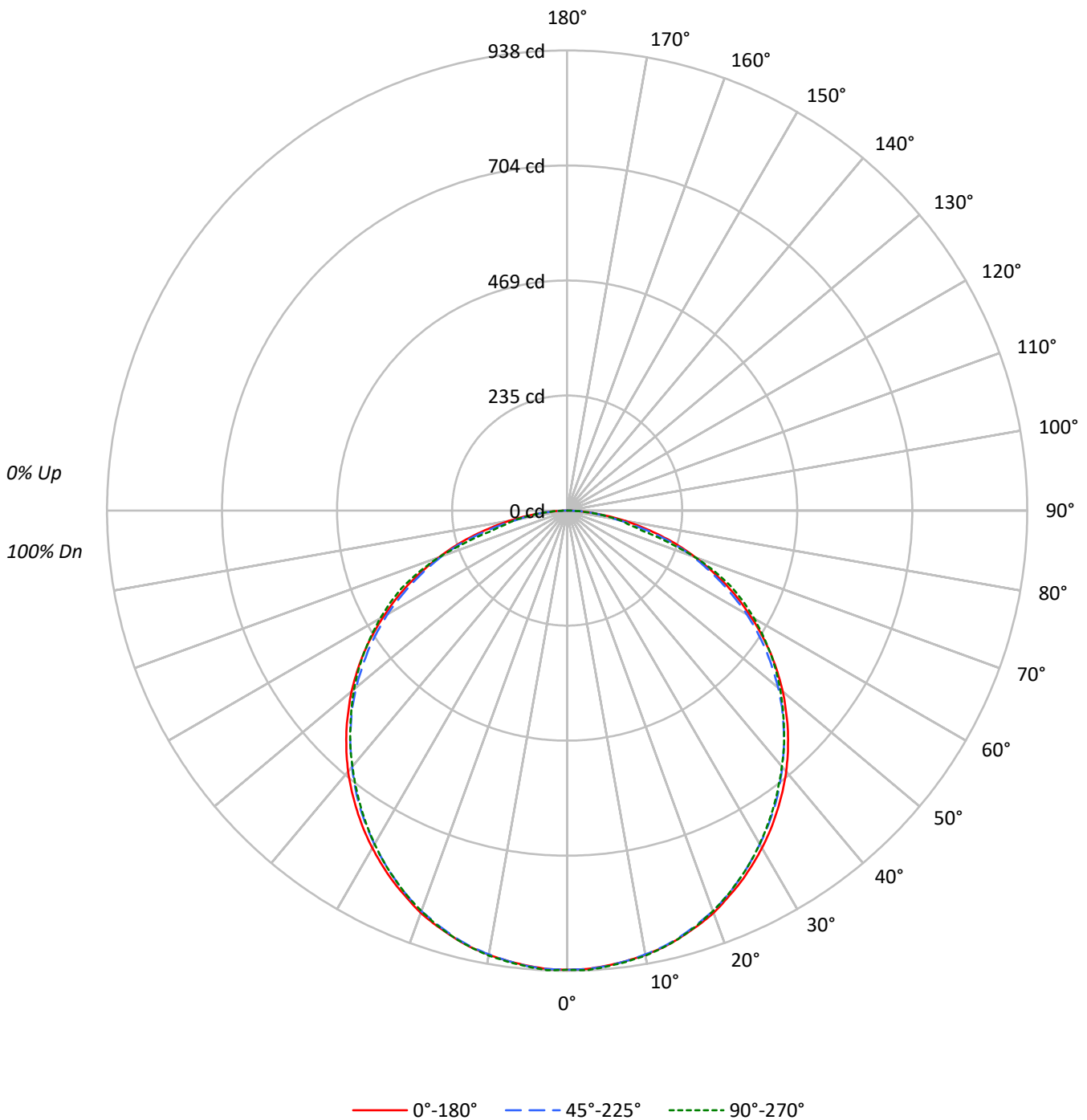
Input Watts (W): 25.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2519	2519	2519
5°	2516	2518	2520
10°	2513	2510	2517
15°	2506	2502	2506
20°	2499	2488	2488
25°	2483	2464	2464
30°	2468	2441	2439
35°	2453	2422	2414
40°	2440	2395	2393
45°	2423	2375	2378
50°	2404	2351	2374
55°	2374	2319	2371
60°	2327	2276	2370
65°	2274	2209	2360
70°	2187	2137	2187
75°	2050	1935	1655
80°	1841	1547	1657
85°	1368	1392	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	3.3
10°-20°	253.5	9.3
20°-30°	383.2	14.1
30°-40°	462.2	17.0
40°-50°	484.1	17.8
50°-60°	446.3	16.4
60°-70°	350.3	12.9
70°-80°	195.4	7.2
80°-90°	52.3	1.9
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°	725.3	26.7
0°-40°	1187.4	43.7
0°-60°	2117.7	78.0
0°-90°	2715.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2715.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	931	930	932	932	933	89
15°	900	898	898	898	900	254
25°	836	833	830	829	830	385
35°	747	744	737	733	735	467
45°	637	632	624	622	625	491
55°	506	500	494	497	505	452
65°	357	352	347	359	371	353
75°	197	193	186	167	159	209
85°	44	43	45	44	44	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.1	936.1	936.1	936.1	936.1
2.5°	935.3	934.5	935.3	936.1	937.7
5°	931.3	930.5	932.1	932.1	932.9
7.5°	925.8	925.0	925.8	926.6	927.4
10°	919.5	918.7	918.7	919.5	921.0
12.5°	911.5	910.0	910.0	910.0	911.5
15°	899.7	898.1	898.1	898.1	899.7
17.5°	887.0	885.4	883.8	883.8	885.4
20°	872.7	870.4	868.8	868.0	868.8
22.5°	854.5	852.9	850.6	849.0	850.6
25°	836.3	833.1	830.0	829.2	830.0
27.5°	815.7	812.5	808.6	807.0	808.6
30°	794.3	790.4	785.6	783.2	784.8
32.5°	771.4	768.2	761.9	759.5	760.3
35°	746.8	743.6	737.3	733.3	734.9
37.5°	721.5	717.5	710.4	706.4	708.0
40°	694.5	689.8	681.9	678.7	681.1
42.5°	666.0	662.1	654.2	651.0	654.2
45°	636.7	632.0	624.1	621.7	624.9
47.5°	605.1	601.9	594.0	593.2	596.3
50°	574.2	568.6	561.5	562.3	567.0
52.5°	540.1	535.4	527.4	530.6	536.9
55°	506.1	500.5	494.2	497.3	505.3
57.5°	469.6	465.7	458.5	463.3	472.8
60°	432.4	429.2	422.9	430.8	440.3
62.5°	396.0	390.4	384.9	395.2	406.3
65°	357.2	351.6	346.9	358.8	370.6
67.5°	316.8	312.8	308.9	318.4	326.3
70°	278.0	274.0	271.6	273.2	278.0
72.5°	238.4	234.4	232.0	223.3	217.8
75°	197.2	193.2	186.1	167.1	159.2
77.5°	156.8	154.4	140.2	123.5	125.9
80°	118.8	114.8	99.8	103.0	106.9
82.5°	80.8	76.8	75.2	72.9	73.7
85°	44.3	42.8	45.1	43.6	44.3
87.5°	17.4	18.2	19.8	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)