

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: P393058

Luminaire Tested: **14EN-LD2-33-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-52)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-33-UNV-L82765-W2A-1-U (2700K)
Description: 1X4 ENCOUNTER, 3300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3002.3 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

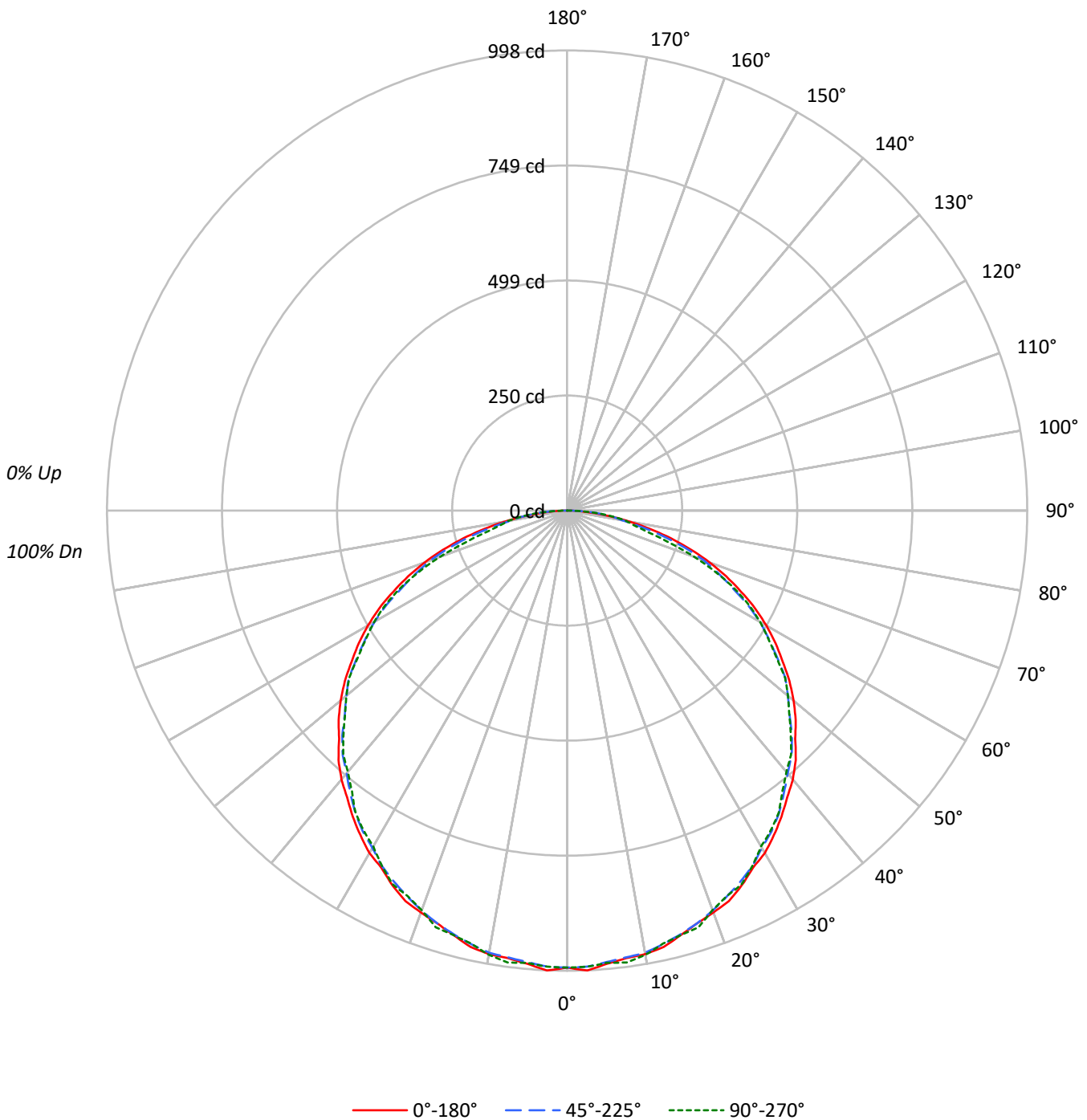
Input Watts (W): 31.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
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°	2667	2667	2667
5°	2665	2655	2660
10°	2669	2661	2673
15°	2655	2650	2655
20°	2656	2643	2641
25°	2662	2638	2657
30°	2665	2625	2614
35°	2662	2632	2629
40°	2674	2614	2598
45°	2662	2624	2610
50°	2685	2617	2617
55°	2677	2609	2595
60°	2684	2596	2601
65°	2649	2511	2551
70°	2588	2480	2316
75°	2428	2257	1889
80°	2126	1886	2013
85°	1572	2019	2019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	3.1
10°-20°	269.3	9.0
20°-30°	410.7	13.7
30°-40°	501.5	16.7
40°-50°	533.6	17.8
50°-60°	501.0	16.7
60°-70°	398.0	13.3
70°-80°	226.3	7.5
80°-90°	68.2	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°	773.8	25.8
0°-40°	1275.2	42.5
0°-60°	2309.8	76.9
0°-90°	3002.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3002.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	987	987	983	988	985	94
15°	953	957	951	955	953	269
25°	897	895	888	889	895	413
35°	810	806	801	798	800	507
45°	700	699	690	688	686	542
55°	570	567	556	555	553	511
65°	416	410	394	401	401	412
75°	234	227	217	191	182	246
85°	51	55	65	64	65	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	991.1	991.1	991.1	991.1	991.1
2.5°	998.4	991.1	990.2	991.1	990.2
5°	986.6	986.6	982.9	988.4	984.7
7.5°	979.3	982.9	977.5	982.9	988.4
10°	976.6	975.7	973.8	972.9	978.4
12.5°	969.3	964.8	962.9	965.7	962.0
15°	952.9	956.6	951.1	954.8	952.9
17.5°	938.4	943.0	938.4	940.2	947.5
20°	927.5	928.4	923.0	923.9	922.1
22.5°	916.6	909.3	905.7	906.6	904.8
25°	896.6	894.8	888.4	889.4	894.8
27.5°	873.0	874.8	869.4	868.5	869.4
30°	857.6	853.0	844.8	845.7	841.2
32.5°	834.8	829.4	824.9	820.3	822.1
35°	810.3	805.8	801.2	797.6	800.3
37.5°	784.0	781.3	772.2	771.3	766.7
40°	761.3	753.1	744.0	741.3	739.5
42.5°	734.0	729.5	720.4	715.8	718.6
45°	699.5	698.6	689.5	687.7	685.9
47.5°	672.2	665.9	654.1	655.0	653.2
50°	641.4	635.9	625.0	621.4	625.0
52.5°	607.7	605.0	596.8	593.2	595.9
55°	570.5	566.9	556.0	555.1	553.2
57.5°	536.0	530.5	518.7	515.1	516.9
60°	498.7	493.3	482.4	476.9	483.3
62.5°	459.7	452.4	440.6	441.5	445.1
65°	416.1	409.7	394.3	400.6	400.6
67.5°	373.4	367.0	354.3	354.3	348.8
70°	328.9	320.7	315.2	302.5	294.3
72.5°	281.6	273.4	267.1	245.3	233.5
75°	233.5	227.1	217.1	190.8	181.7
77.5°	183.5	181.7	166.2	146.3	149.0
80°	137.2	139.9	121.7	129.0	129.9
82.5°	93.6	93.6	96.3	101.7	101.7
85°	50.9	55.4	65.4	63.6	65.4
87.5°	19.1	27.3	30.0	28.2	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)