

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: P393062

Luminaire Tested: **14EN-LD2-33-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393062
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 (4500K)
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: 3178.8 lumens
Efficiency: N/A
Efficacy: 102.5 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

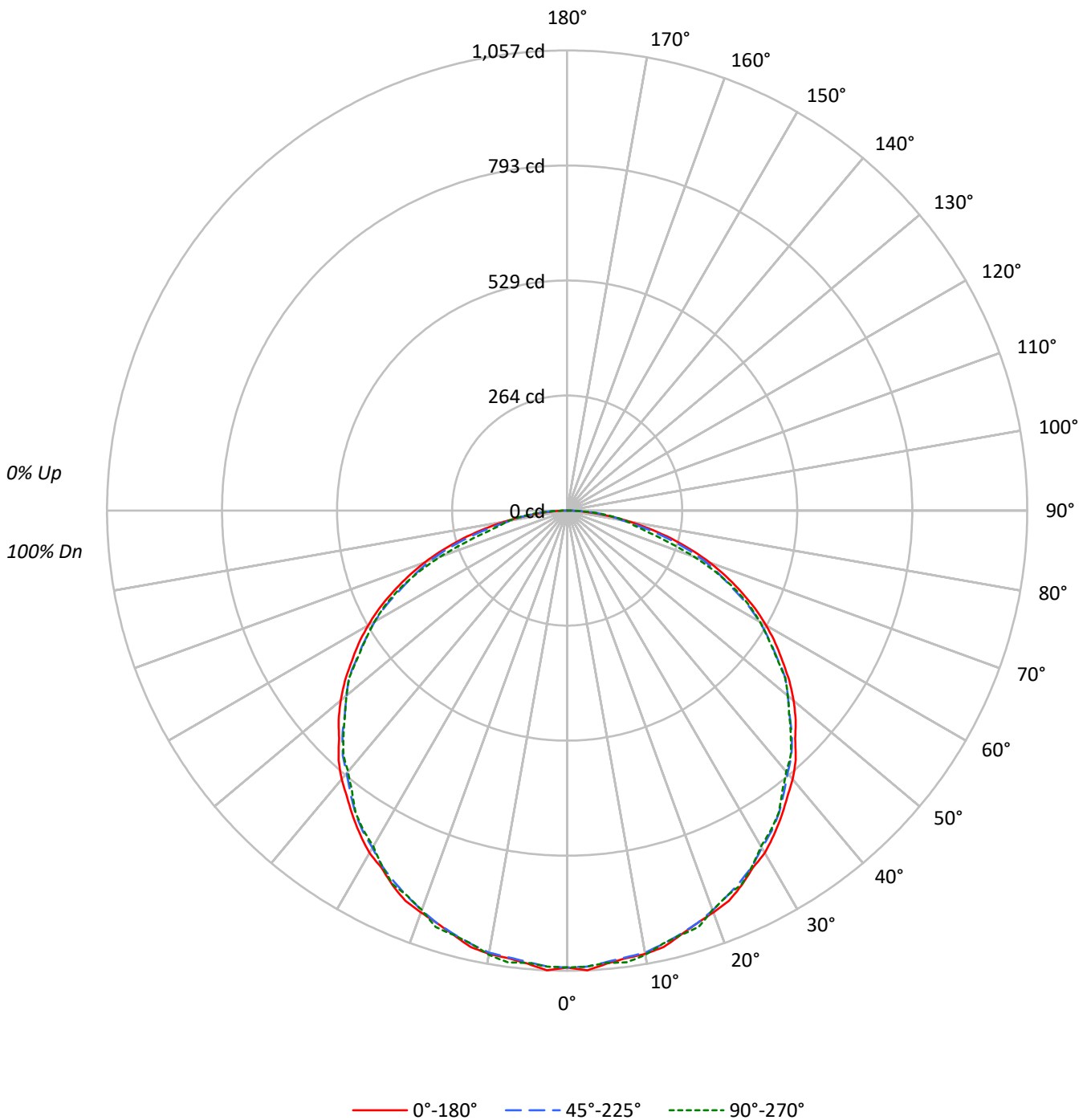
Input Watts (W): 31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2824	2824	2824
5°	2821	2811	2816
10°	2825	2817	2831
15°	2811	2805	2811
20°	2812	2798	2796
25°	2819	2793	2813
30°	2821	2779	2768
35°	2819	2787	2784
40°	2831	2767	2750
45°	2818	2778	2764
50°	2843	2770	2770
55°	2834	2761	2748
60°	2842	2749	2754
65°	2805	2658	2701
70°	2740	2626	2452
75°	2570	2390	2000
80°	2250	1998	2131
85°	1664	2140	2140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.1
10°-20°	285.1	9.0
20°-30°	434.8	13.7
30°-40°	531.0	16.7
40°-50°	564.9	17.8
50°-60°	530.4	16.7
60°-70°	421.4	13.3
70°-80°	239.6	7.5
80°-90°	72.2	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°	819.2	25.8
0°-40°	1350.2	42.5
0°-60°	2445.6	76.9
0°-90°	3178.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3178.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1049	1049	1049	1049	1049	
5°	1044	1044	1041	1046	1043	99
15°	1009	1013	1007	1011	1009	285
25°	949	947	941	942	947	437
35°	858	853	848	844	847	537
45°	741	740	730	728	726	574
55°	604	600	589	588	586	541
65°	440	434	417	424	424	436
75°	247	240	230	202	192	260
85°	54	59	69	67	69	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1049.4	1049.4	1049.4	1049.4	1049.4
2.5°	1057.1	1049.4	1048.4	1049.4	1048.4
5°	1044.5	1044.5	1040.7	1046.5	1042.6
7.5°	1036.9	1040.7	1034.9	1040.7	1046.5
10°	1034.0	1033.0	1031.1	1030.1	1035.9
12.5°	1026.3	1021.5	1019.5	1022.4	1018.6
15°	1009.0	1012.8	1007.0	1010.9	1009.0
17.5°	993.6	998.4	993.6	995.5	1003.2
20°	982.0	983.0	977.2	978.2	976.3
22.5°	970.5	962.8	958.9	959.9	958.0
25°	949.3	947.4	940.7	941.6	947.4
27.5°	924.3	926.2	920.5	919.5	920.5
30°	908.0	903.2	894.5	895.5	890.7
32.5°	883.9	878.2	873.3	868.5	870.5
35°	858.0	853.1	848.3	844.5	847.4
37.5°	830.1	827.2	817.6	816.6	811.8
40°	806.0	797.4	787.7	784.9	782.9
42.5°	777.2	772.4	762.7	757.9	760.8
45°	740.6	739.6	730.0	728.1	726.2
47.5°	711.8	705.0	692.5	693.5	691.6
50°	679.1	673.3	661.7	657.9	661.7
52.5°	643.5	640.6	631.9	628.1	631.0
55°	604.0	600.2	588.6	587.7	585.8
57.5°	567.5	561.7	549.2	545.4	547.3
60°	528.0	522.3	510.7	505.0	511.7
62.5°	486.7	479.0	466.5	467.5	471.3
65°	440.5	433.8	417.4	424.2	424.2
67.5°	395.3	388.6	375.1	375.1	369.3
70°	348.2	339.5	333.8	320.3	311.6
72.5°	298.2	289.5	282.8	259.7	247.2
75°	247.2	240.5	229.9	202.0	192.4
77.5°	194.3	192.4	176.0	154.9	157.7
80°	145.2	148.1	128.9	136.6	137.5
82.5°	99.1	99.1	102.0	107.7	107.7
85°	53.9	58.7	69.3	67.3	69.3
87.5°	20.2	28.9	31.7	29.8	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)