

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: P393063

Luminaire Tested: **14EN-LD2-33-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393063  
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 (5000K)  
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: 3173.7 lumens  
Efficiency: N/A  
Efficacy: 102.7 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

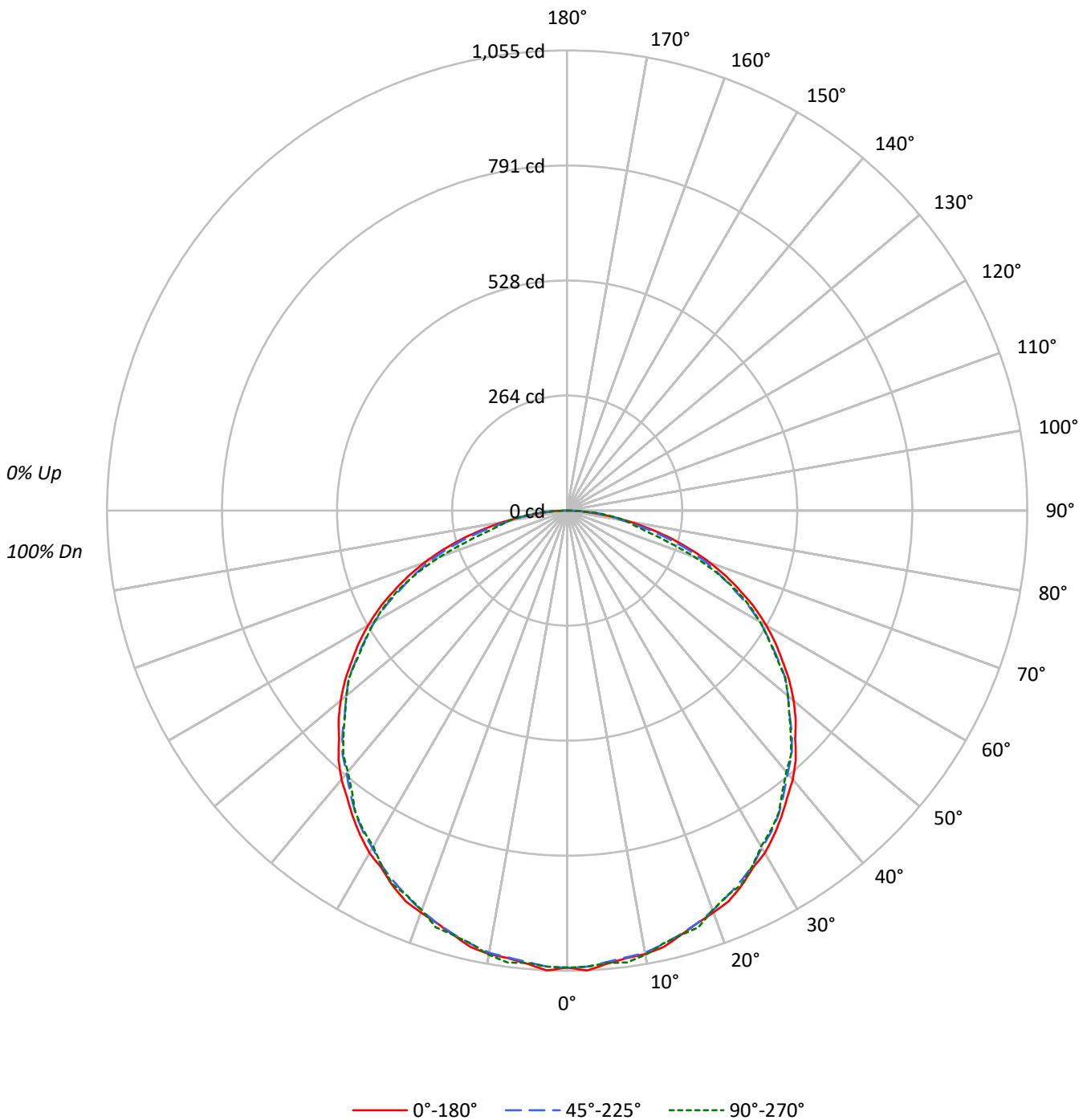
Input Watts (W): 30.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2819	2819	2819
5°	2817	2807	2812
10°	2821	2813	2826
15°	2806	2801	2806
20°	2808	2794	2791
25°	2814	2788	2809
30°	2817	2775	2763
35°	2814	2782	2779
40°	2827	2763	2746
45°	2814	2774	2759
50°	2838	2766	2766
55°	2829	2757	2744
60°	2837	2744	2750
65°	2800	2654	2697
70°	2735	2622	2448
75°	2566	2386	1997
80°	2247	1994	2128
85°	1661	2133	2133



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.2	3.1
10°-20°	284.6	9.0
20°-30°	434.1	13.7
30°-40°	530.1	16.7
40°-50°	564.0	17.8
50°-60°	529.6	16.7
60°-70°	420.7	13.3
70°-80°	239.2	7.5
80°-90°	72.1	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°	817.9	25.8
0°-40°	1348.0	42.5
0°-60°	2441.6	76.9
0°-90°	3173.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3173.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1043	1043	1039	1045	1041	99
15°	1007	1011	1005	1009	1007	285
25°	948	946	939	940	946	437
35°	857	852	847	843	846	536
45°	739	738	729	727	725	573
55°	603	599	588	587	585	540
65°	440	433	417	424	424	435
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°	1047.7	1047.7	1047.7	1047.7	1047.7
2.5°	1055.3	1047.7	1046.7	1047.7	1046.7
5°	1042.9	1042.9	1039.0	1044.8	1040.9
7.5°	1035.2	1039.0	1033.3	1039.0	1044.8
10°	1032.3	1031.3	1029.4	1028.5	1034.2
12.5°	1024.6	1019.8	1017.9	1020.8	1016.9
15°	1007.3	1011.2	1005.4	1009.2	1007.3
17.5°	992.0	996.8	992.0	993.9	1001.6
20°	980.4	981.4	975.6	976.6	974.7
22.5°	968.9	961.2	957.4	958.4	956.4
25°	947.8	945.9	939.1	940.1	945.9
27.5°	922.8	924.7	919.0	918.0	919.0
30°	906.5	901.7	893.1	894.0	889.2
32.5°	882.5	876.7	871.9	867.1	869.0
35°	856.6	851.8	847.0	843.1	846.0
37.5°	828.7	825.8	816.2	815.3	810.5
40°	804.7	796.1	786.5	783.6	781.7
42.5°	775.9	771.1	761.5	756.7	759.6
45°	739.4	738.5	728.8	726.9	725.0
47.5°	710.6	703.9	691.4	692.4	690.4
50°	678.0	672.2	660.7	656.8	660.7
52.5°	642.4	639.5	630.9	627.1	629.9
55°	603.1	599.2	587.7	586.7	584.8
57.5°	566.6	560.8	548.3	544.5	546.4
60°	527.2	521.4	509.9	504.1	510.9
62.5°	485.9	478.2	465.7	466.7	470.5
65°	439.8	433.1	416.8	423.5	423.5
67.5°	394.7	388.0	374.5	374.5	368.7
70°	347.6	339.0	333.2	319.8	311.1
72.5°	297.7	289.0	282.3	259.3	246.8
75°	246.8	240.1	229.5	201.7	192.1
77.5°	194.0	192.1	175.7	154.6	157.5
80°	145.0	147.9	128.7	136.4	137.3
82.5°	98.9	98.9	101.8	107.6	107.6
85°	53.8	58.6	69.1	67.2	69.1
87.5°	20.2	28.8	31.7	29.8	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)