

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: P393426

Luminaire Tested: **24EN-LD2-30-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-31)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24EN-LD2-30-UNV-L92765-W2A-1-U (2700K)  
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2292.8 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

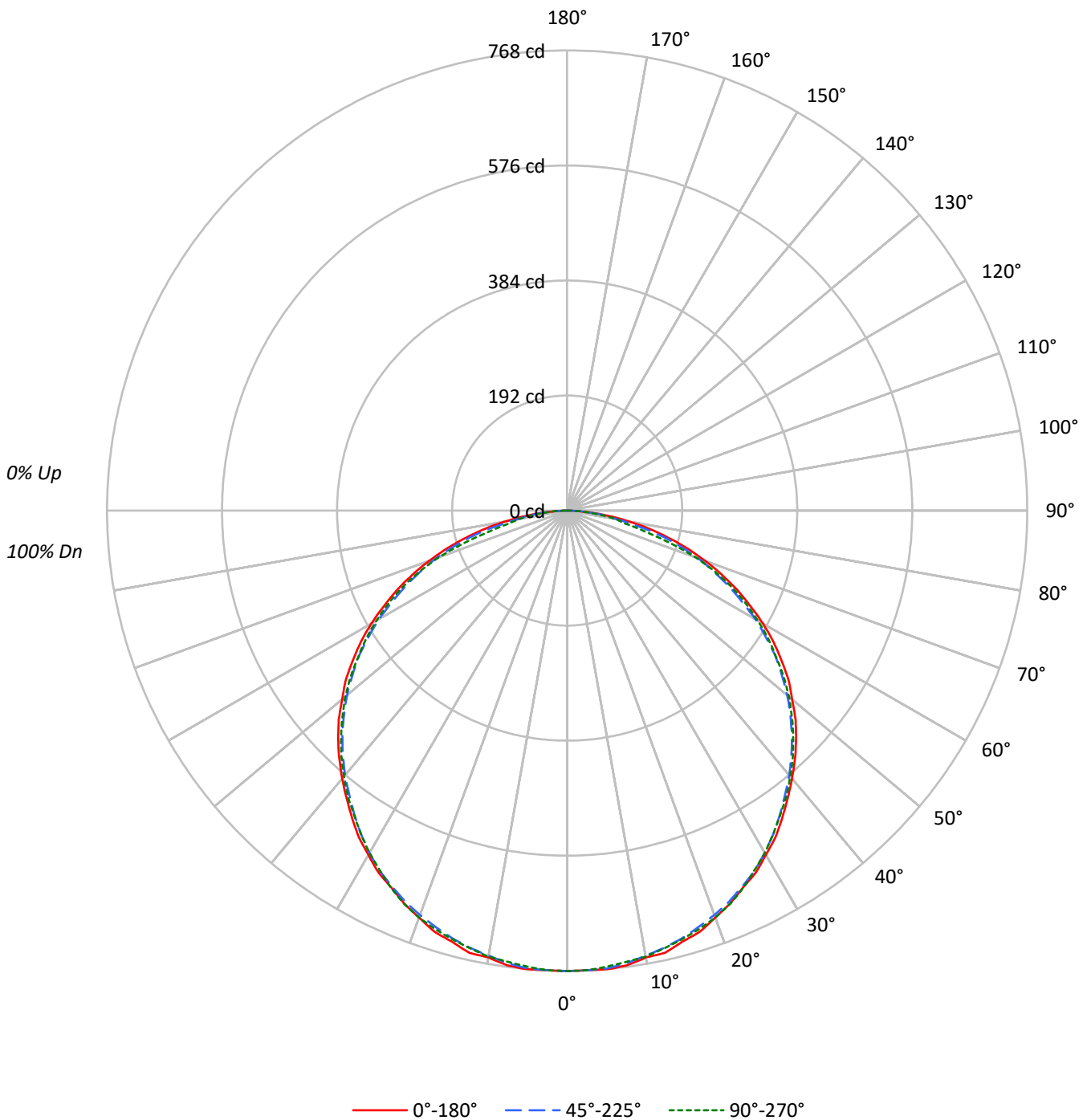
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1034	1034	1034
5°	1038	1036	1032
10°	1035	1031	1033
15°	1037	1030	1032
20°	1035	1028	1035
25°	1031	1027	1032
30°	1031	1025	1025
35°	1028	1017	1018
40°	1026	1012	1018
45°	1028	1010	1015
50°	1026	1004	1012
55°	1025	996	998
60°	1016	975	989
65°	996	944	968
70°	965	915	895
75°	909	843	690
80°	808	657	640
85°	661	591	533



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.8	3.2
10°-20°	209.0	9.1
20°-30°	319.3	13.9
30°-40°	389.2	17.0
40°-50°	410.8	17.9
50°-60°	381.4	16.6
60°-70°	298.7	13.0
70°-80°	167.0	7.3
80°-90°	44.5	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°	601.2	26.2
0°-40°	990.4	43.2
0°-60°	1782.6	77.7
0°-90°	2292.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2292.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	768	768	767	767	764	73
15°	744	740	739	738	741	210
25°	694	694	692	690	695	321
35°	626	624	619	621	620	392
45°	540	534	531	528	534	417
55°	437	431	425	422	426	390
65°	313	306	296	300	304	309
75°	175	170	162	139	133	185
85°	43	38	38	36	34	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	768.5	768.5	768.5	768.5	768.5
2.5°	767.8	769.3	767.8	766.3	767.8
5°	768.5	767.8	767.0	767.0	764.0
7.5°	765.5	764.0	761.8	762.5	759.5
10°	757.3	757.3	754.3	756.5	755.8
12.5°	755.8	748.3	747.5	748.3	748.3
15°	744.5	740.0	739.2	738.5	740.7
17.5°	737.0	729.5	728.7	727.2	732.5
20°	722.7	718.2	718.2	716.0	722.7
22.5°	710.0	705.5	706.2	703.2	710.7
25°	694.2	693.5	692.0	689.7	695.0
27.5°	681.5	678.5	677.7	675.5	677.0
30°	663.4	662.7	659.7	658.9	659.7
32.5°	646.9	644.7	640.2	640.9	640.2
35°	625.9	623.7	619.2	621.4	619.9
37.5°	604.9	602.7	597.4	599.7	601.2
40°	583.9	580.9	576.4	578.6	579.4
42.5°	562.9	557.6	553.9	552.4	557.6
45°	540.4	534.4	530.6	527.6	533.6
47.5°	517.1	510.3	505.1	503.6	508.8
50°	490.1	484.8	479.6	477.3	483.3
52.5°	466.1	457.8	451.8	450.3	455.6
55°	436.8	430.8	424.8	422.5	425.5
57.5°	408.3	401.5	393.3	393.3	397.8
60°	377.5	370.7	362.5	363.2	367.7
62.5°	344.5	340.0	328.7	331.7	336.2
65°	313.0	306.2	296.4	299.5	304.0
67.5°	279.2	273.2	264.2	264.9	267.2
70°	245.4	237.9	232.7	227.4	227.4
72.5°	210.1	204.1	198.1	183.9	180.9
75°	174.9	169.6	162.1	138.8	132.8
77.5°	140.3	136.6	122.3	100.6	98.3
80°	104.3	103.6	84.8	82.6	82.6
82.5°	72.0	69.0	64.5	60.0	57.8
85°	42.8	38.3	38.3	36.0	34.5
87.5°	13.5	15.8	15.8	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)