

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: P393427

Luminaire Tested: **24EN-LD2-30-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393427  
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 (3000K)  
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: 2365.1 lumens  
Efficiency: N/A  
Efficacy: 114.3 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

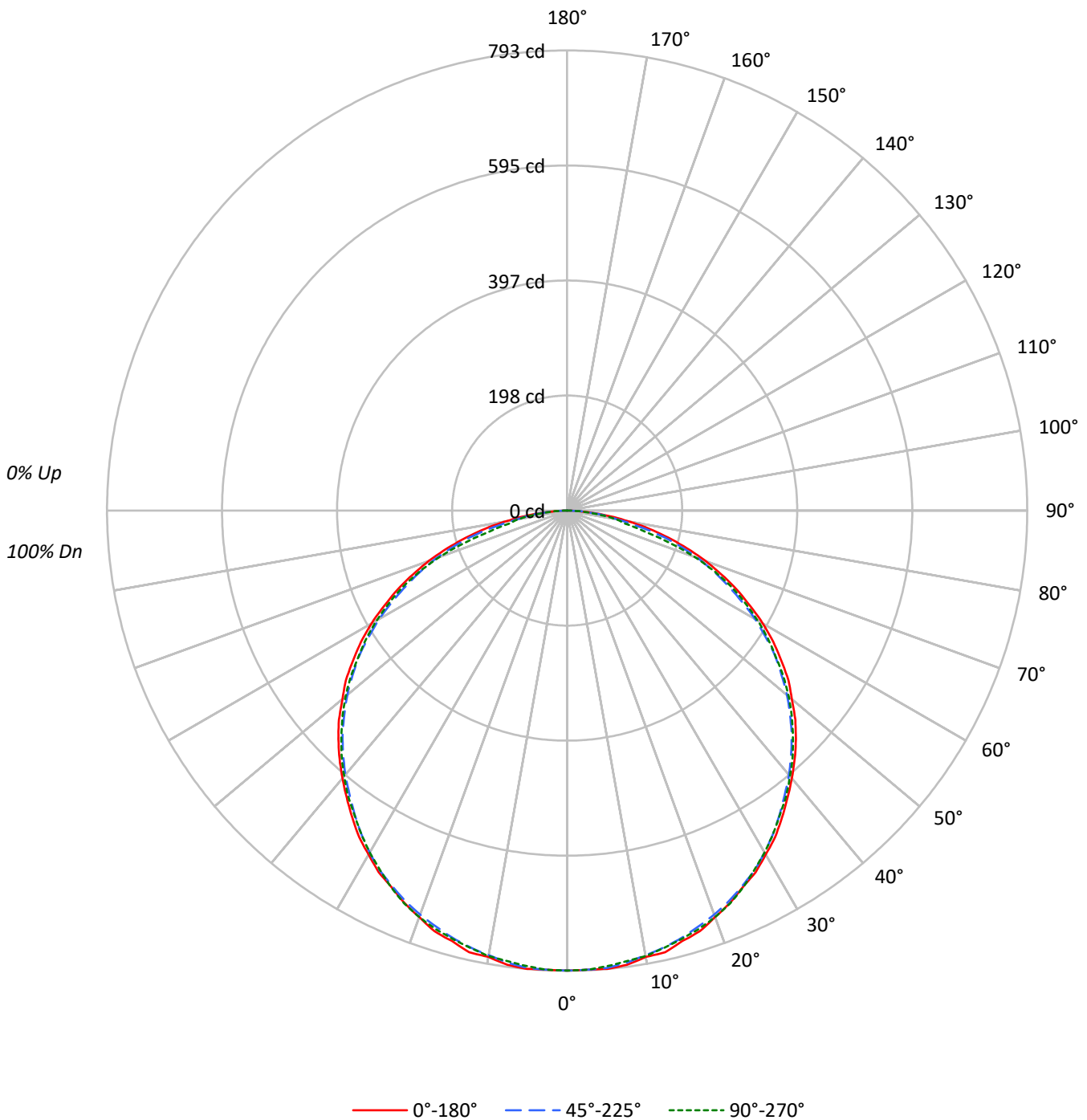
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1067	1067	1067
5°	1071	1069	1064
10°	1067	1063	1065
15°	1070	1062	1064
20°	1067	1061	1067
25°	1063	1060	1064
30°	1063	1057	1057
35°	1060	1049	1050
40°	1058	1044	1050
45°	1061	1041	1047
50°	1058	1036	1044
55°	1057	1028	1030
60°	1048	1006	1021
65°	1028	974	998
70°	996	944	923
75°	938	869	712
80°	834	678	660
85°	681	610	550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.1	3.2
10°-20°	215.6	9.1
20°-30°	329.4	13.9
30°-40°	401.5	17.0
40°-50°	423.8	17.9
50°-60°	393.4	16.6
60°-70°	308.1	13.0
70°-80°	172.3	7.3
80°-90°	45.9	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°	620.1	26.2
0°-40°	1021.6	43.2
0°-60°	1838.8	77.7
0°-90°	2365.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2365.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	793	792	791	791	788	75
15°	768	763	762	762	764	217
25°	716	715	714	711	717	331
35°	646	643	639	641	640	404
45°	557	551	547	544	550	430
55°	451	444	438	436	439	403
65°	323	316	306	309	314	319
75°	180	175	167	143	137	190
85°	44	40	40	37	36	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	792.7	792.7	792.7	792.7	792.7
2.5°	792.0	793.5	792.0	790.4	792.0
5°	792.7	792.0	791.2	791.2	788.1
7.5°	789.6	788.1	785.8	786.5	783.4
10°	781.1	781.1	778.0	780.3	779.6
12.5°	779.6	771.8	771.1	771.8	771.8
15°	768.0	763.3	762.5	761.8	764.1
17.5°	760.2	752.5	751.7	750.2	755.6
20°	745.5	740.9	740.9	738.5	745.5
22.5°	732.3	727.7	728.5	725.4	733.1
25°	716.1	715.3	713.8	711.4	716.9
27.5°	702.9	699.8	699.1	696.7	698.3
30°	684.4	683.6	680.5	679.7	680.5
32.5°	667.3	665.0	660.4	661.1	660.4
35°	645.6	643.3	638.7	641.0	639.5
37.5°	624.0	621.6	616.2	618.5	620.1
40°	602.3	599.2	594.6	596.9	597.6
42.5°	580.6	575.2	571.3	569.8	575.2
45°	557.4	551.2	547.3	544.2	550.4
47.5°	533.4	526.4	521.0	519.5	524.9
50°	505.5	500.1	494.7	492.4	498.6
52.5°	480.7	472.2	466.0	464.5	469.9
55°	450.6	444.4	438.2	435.8	438.9
57.5°	421.1	414.2	405.7	405.7	410.3
60°	389.4	382.4	373.9	374.7	379.3
62.5°	355.3	350.7	339.1	342.2	346.8
65°	322.8	315.9	305.8	308.9	313.5
67.5°	288.0	281.8	272.5	273.3	275.6
70°	253.1	245.4	240.0	234.6	234.6
72.5°	216.8	210.6	204.4	189.7	186.6
75°	180.4	175.0	167.2	143.2	137.0
77.5°	144.8	140.9	126.2	103.7	101.4
80°	107.6	106.8	87.5	85.2	85.2
82.5°	74.3	71.2	66.6	61.9	59.6
85°	44.1	39.5	39.5	37.2	35.6
87.5°	13.9	16.3	16.3	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)