

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: P393419

Luminaire Tested: **24EN-LD2-30-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393419
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-L83050-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3006.0 lumens
Efficiency: N/A
Efficacy: 141.8 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

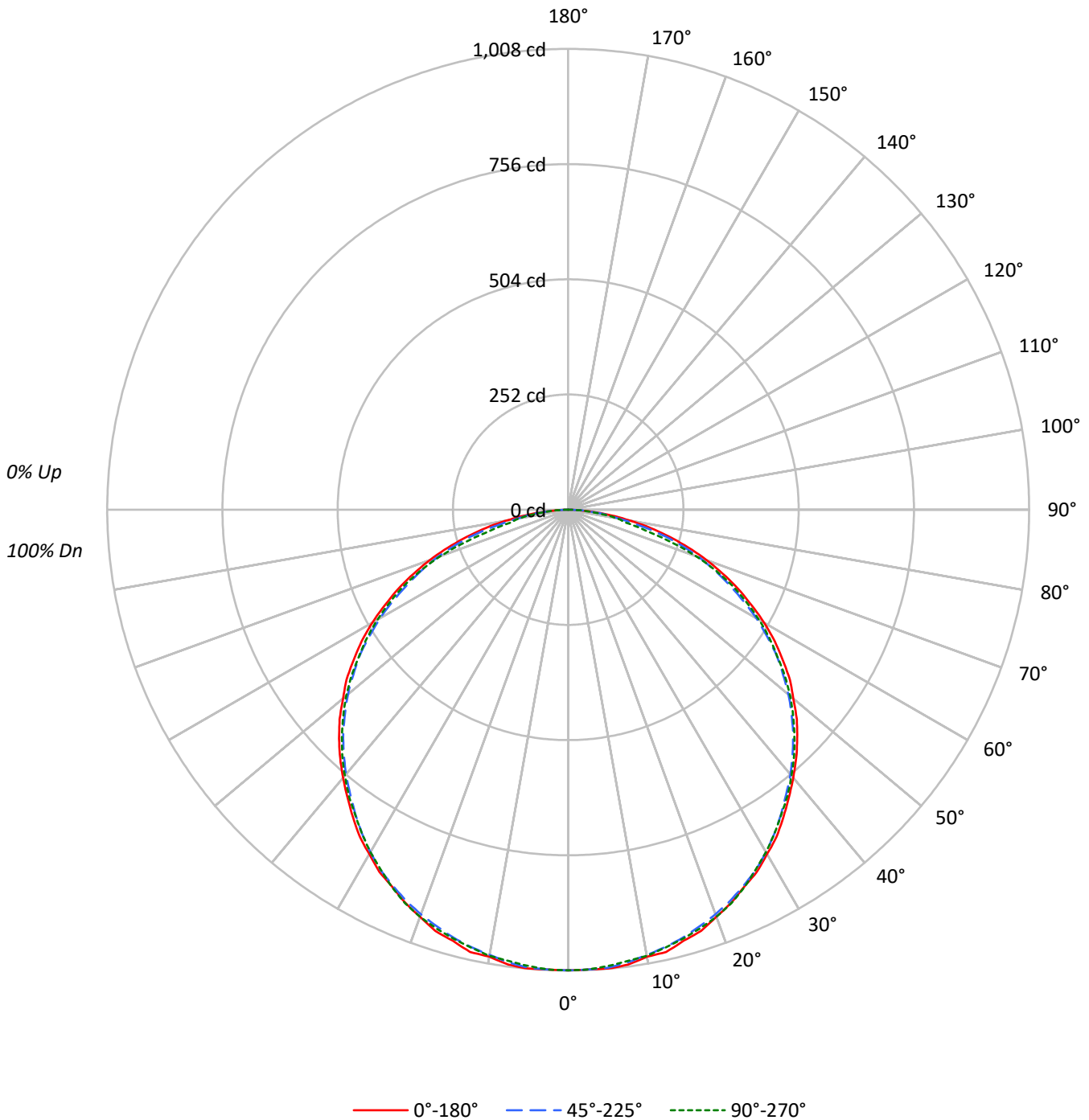
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393419

CATALOG NUMBER: 24EN-LD2-30-UNV-L83050-W2A-1-U (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393419

CATALOG NUMBER: 24EN-LD2-30-UNV-L83050-W2A-1-U (3000K)

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°	1356	1356	1356
5°	1361	1358	1353
10°	1356	1351	1354
15°	1360	1350	1353
20°	1357	1348	1357
25°	1351	1347	1353
30°	1351	1344	1344
35°	1348	1333	1335
40°	1345	1327	1334
45°	1348	1324	1331
50°	1345	1316	1326
55°	1343	1306	1309
60°	1332	1279	1297
65°	1306	1238	1269
70°	1266	1200	1173
75°	1192	1105	906
80°	1060	862	838
85°	866	775	699



TEST NUMBER: P393419

CATALOG NUMBER: 24EN-LD2-30-UNV-L83050-W2A-1-U (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	3.2
10°-20°	274.0	9.1
20°-30°	418.6	13.9
30°-40°	510.3	17.0
40°-50°	538.6	17.9
50°-60°	500.1	16.6
60°-70°	391.6	13.0
70°-80°	218.9	7.3
80°-90°	58.3	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°	788.1	26.2
0°-40°	1298.4	43.2
0°-60°	2337.1	77.7
0°-90°	3006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1008	1007	1006	1006	1002	96
15°	976	970	969	968	971	276
25°	910	909	907	904	911	421
35°	821	818	812	815	813	514
45°	708	701	696	692	700	546
55°	573	565	557	554	558	512
65°	410	402	389	393	398	405
75°	229	222	212	182	174	242
85°	56	50	50	47	45	64
90°	0	0	0	0	0	



TEST NUMBER: P393419

CATALOG NUMBER: 24EN-LD2-30-UNV-L83050-W2A-1-U (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.6	1007.6	1007.6	1007.6	1007.6
2.5°	1006.6	1008.5	1006.6	1004.6	1006.6
5°	1007.6	1006.6	1005.6	1005.6	1001.7
7.5°	1003.6	1001.7	998.7	999.7	995.8
10°	992.8	992.8	988.9	991.8	990.8
12.5°	990.8	981.0	980.0	981.0	981.0
15°	976.1	970.2	969.2	968.2	971.2
17.5°	966.2	956.4	955.4	953.4	960.3
20°	947.5	941.6	941.6	938.7	947.5
22.5°	930.8	924.9	925.9	922.0	931.8
25°	910.2	909.2	907.2	904.2	911.1
27.5°	893.4	889.5	888.5	885.6	887.5
30°	869.8	868.8	864.9	863.9	864.9
32.5°	848.2	845.2	839.3	840.3	839.3
35°	820.6	817.7	811.8	814.7	812.7
37.5°	793.1	790.1	783.2	786.2	788.1
40°	765.5	761.6	755.7	758.6	759.6
42.5°	738.0	731.1	726.2	724.2	731.1
45°	708.4	700.6	695.7	691.7	699.6
47.5°	677.9	669.1	662.2	660.2	667.1
50°	642.5	635.6	628.7	625.8	633.7
52.5°	611.0	600.2	592.3	590.4	597.3
55°	572.7	564.8	556.9	554.0	557.9
57.5°	535.3	526.4	515.6	515.6	521.5
60°	494.9	486.1	475.2	476.2	482.1
62.5°	451.6	445.7	431.0	434.9	440.8
65°	410.3	401.5	388.7	392.6	398.5
67.5°	366.0	358.2	346.3	347.3	350.3
70°	321.8	311.9	305.0	298.1	298.1
72.5°	275.5	267.6	259.8	241.1	237.1
75°	229.3	222.4	212.5	182.0	174.2
77.5°	184.0	179.1	160.4	131.8	128.9
80°	136.8	135.8	111.2	108.2	108.2
82.5°	94.5	90.5	84.6	78.7	75.8
85°	56.1	50.2	50.2	47.2	45.3
87.5°	17.7	20.7	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)