

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: P393432

Luminaire Tested: **24EN-LD2-30-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393432
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 (5700K)
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2614.7 lumens
Efficiency: N/A
Efficacy: 125.7 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

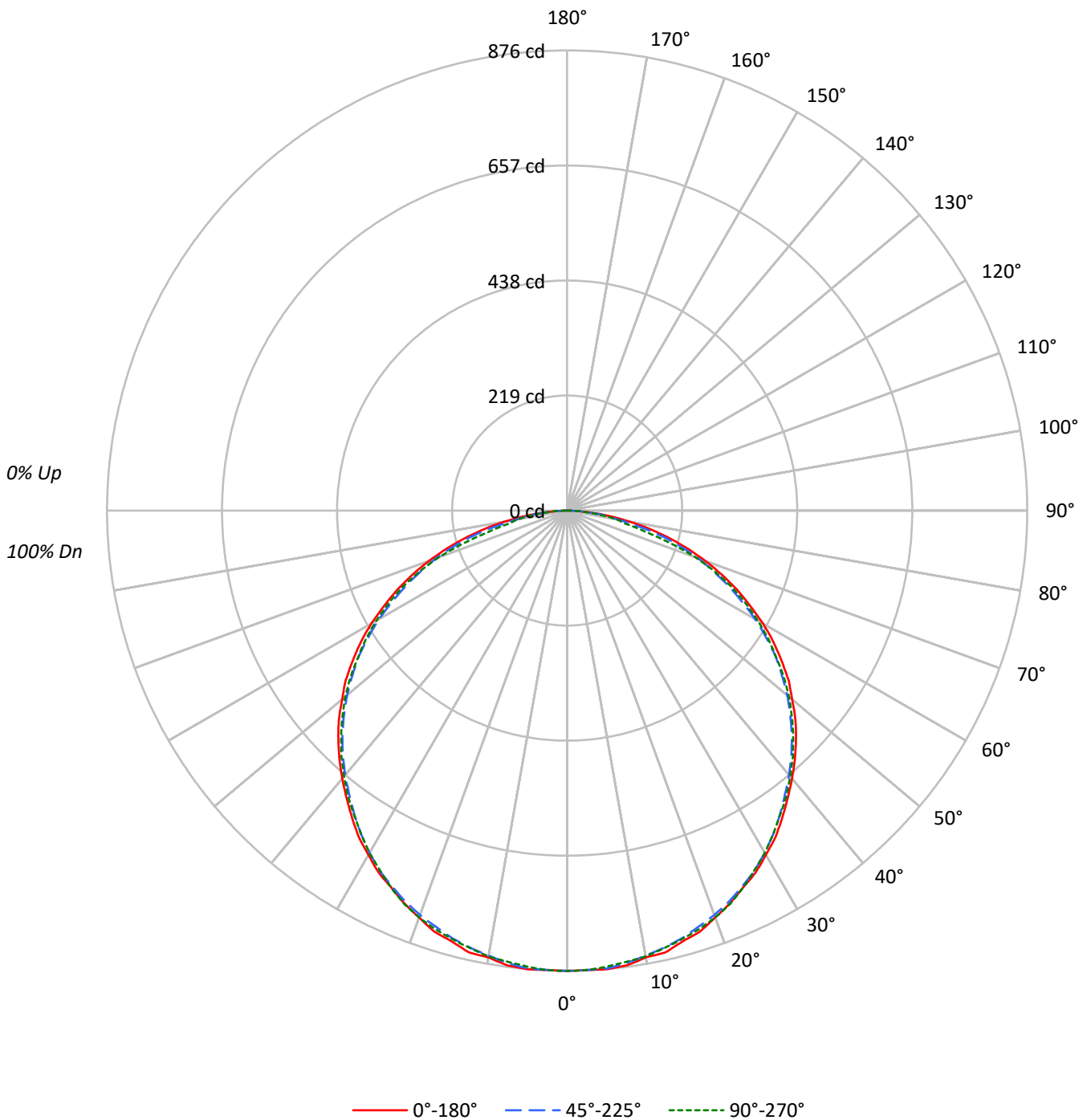
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393432

CATALOG NUMBER: 24EN-LD2-30-UNV-L92765-W2A-1-U (5700K)

Luminous Intensity Polar Plot





TEST NUMBER: P393432

CATALOG NUMBER: 24EN-LD2-30-UNV-L92765-W2A-1-U (5700K)

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°	1179	1179	1179
5°	1184	1181	1177
10°	1180	1175	1178
15°	1183	1174	1177
20°	1180	1173	1180
25°	1175	1171	1177
30°	1175	1169	1169
35°	1172	1160	1161
40°	1170	1154	1160
45°	1173	1151	1158
50°	1170	1145	1154
55°	1168	1136	1138
60°	1158	1112	1129
65°	1136	1076	1103
70°	1101	1044	1020
75°	1037	961	788
80°	922	749	729
85°	753	673	608



TEST NUMBER: P393432

CATALOG NUMBER: 24EN-LD2-30-UNV-L92765-W2A-1-U (5700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.2
10°-20°	238.3	9.1
20°-30°	364.1	13.9
30°-40°	443.9	17.0
40°-50°	468.5	17.9
50°-60°	435.0	16.6
60°-70°	340.7	13.0
70°-80°	190.4	7.3
80°-90°	50.7	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°	685.5	26.2
0°-40°	1129.4	43.2
0°-60°	2032.9	77.7
0°-90°	2614.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2614.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	876	876	875	875	871	83
15°	849	844	843	842	845	240
25°	792	791	789	786	792	366
35°	714	711	706	709	707	447
45°	616	609	605	602	608	475
55°	498	491	484	482	485	445
65°	357	349	338	342	347	352
75°	199	193	185	158	152	211
85°	49	44	44	41	39	56
90°	0	0	0	0	0	



TEST NUMBER: P393432

CATALOG NUMBER: 24EN-LD2-30-UNV-L92765-W2A-1-U (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.4	876.4	876.4	876.4	876.4
2.5°	875.6	877.3	875.6	873.8	875.6
5°	876.4	875.6	874.7	874.7	871.3
7.5°	873.0	871.3	868.7	869.6	866.1
10°	863.6	863.6	860.1	862.7	861.9
12.5°	861.9	853.3	852.4	853.3	853.3
15°	849.0	843.9	843.0	842.2	844.7
17.5°	840.5	831.9	831.0	829.3	835.3
20°	824.2	819.1	819.1	816.5	824.2
22.5°	809.7	804.5	805.4	801.9	810.5
25°	791.7	790.8	789.1	786.5	792.5
27.5°	777.1	773.7	772.9	770.3	772.0
30°	756.6	755.7	752.3	751.5	752.3
32.5°	737.8	735.2	730.1	730.9	730.1
35°	713.8	711.2	706.1	708.7	706.9
37.5°	689.8	687.3	681.3	683.8	685.6
40°	665.9	662.4	657.3	659.9	660.7
42.5°	641.9	635.9	631.6	629.9	635.9
45°	616.2	609.4	605.1	601.7	608.5
47.5°	589.7	582.0	576.0	574.3	580.3
50°	558.9	552.9	546.9	544.3	551.2
52.5°	531.5	522.1	515.2	513.5	519.5
55°	498.1	491.3	484.4	481.9	485.3
57.5°	465.6	457.9	448.5	448.5	453.6
60°	430.5	422.8	413.4	414.2	419.4
62.5°	392.8	387.7	374.9	378.3	383.4
65°	356.9	349.2	338.1	341.5	346.6
67.5°	318.4	311.5	301.3	302.1	304.7
70°	279.9	271.3	265.3	259.3	259.3
72.5°	239.6	232.8	225.9	209.7	206.3
75°	199.4	193.4	184.9	158.3	151.5
77.5°	160.0	155.8	139.5	114.7	112.1
80°	119.0	118.1	96.7	94.1	94.1
82.5°	82.2	78.7	73.6	68.5	65.9
85°	48.8	43.6	43.6	41.1	39.4
87.5°	15.4	18.0	18.0	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)