

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: P393421

Luminaire Tested: **24EN-LD2-30-UNV-L83050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393421
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 (4000K)
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: 3068.0 lumens
Efficiency: N/A
Efficacy: 146.1 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

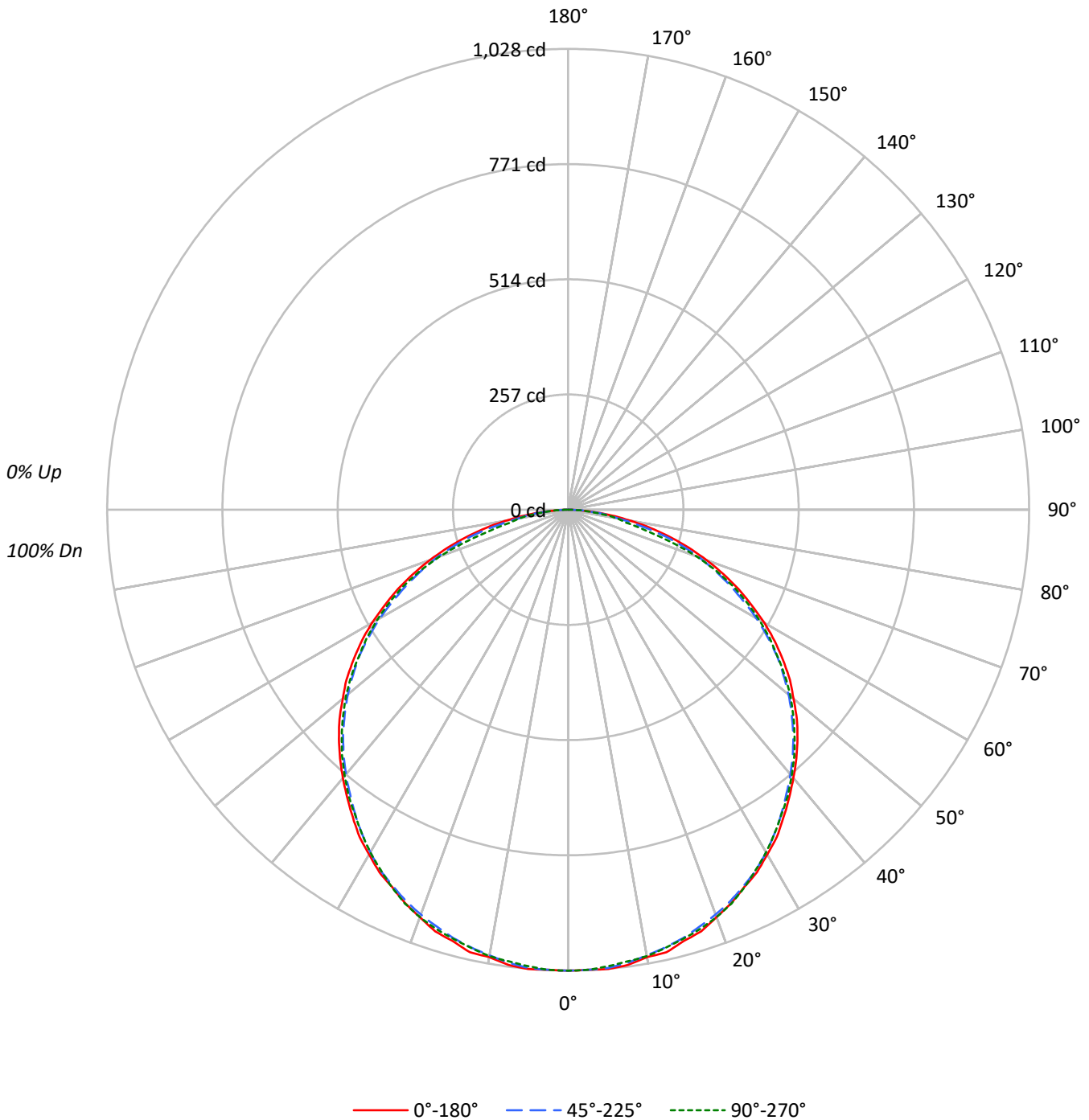
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1384	1384	1384
5°	1389	1386	1381
10°	1384	1379	1382
15°	1388	1378	1381
20°	1385	1376	1385
25°	1379	1375	1381
30°	1379	1371	1371
35°	1376	1361	1362
40°	1372	1355	1362
45°	1376	1351	1359
50°	1373	1343	1354
55°	1371	1333	1336
60°	1359	1305	1324
65°	1333	1263	1295
70°	1292	1225	1197
75°	1216	1128	924
80°	1082	879	856
85°	883	790	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	3.2
10°-20°	279.6	9.1
20°-30°	427.3	13.9
30°-40°	520.8	17.0
40°-50°	549.7	17.9
50°-60°	510.4	16.6
60°-70°	399.7	13.0
70°-80°	223.5	7.3
80°-90°	59.5	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°	804.4	26.2
0°-40°	1325.2	43.2
0°-60°	2385.3	77.7
0°-90°	3068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1028	1027	1026	1026	1022	98
15°	996	990	989	988	991	282
25°	929	928	926	923	930	429
35°	838	834	828	832	830	524
45°	723	715	710	706	714	558
55°	584	576	568	565	569	522
65°	419	410	397	401	407	413
75°	234	227	217	186	178	247
85°	57	51	51	48	46	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028.4	1028.4	1028.4	1028.4	1028.4
2.5°	1027.4	1029.4	1027.4	1025.3	1027.4
5°	1028.4	1027.4	1026.3	1026.3	1022.3
7.5°	1024.3	1022.3	1019.3	1020.3	1016.3
10°	1013.3	1013.3	1009.3	1012.3	1011.3
12.5°	1011.3	1001.2	1000.2	1001.2	1001.2
15°	996.2	990.2	989.2	988.2	991.2
17.5°	986.2	976.1	975.1	973.1	980.2
20°	967.1	961.1	961.1	958.1	967.1
22.5°	950.0	944.0	945.0	941.0	951.0
25°	928.9	927.9	925.9	922.9	929.9
27.5°	911.9	907.8	906.8	903.8	905.8
30°	887.8	886.8	882.7	881.7	882.7
32.5°	865.7	862.7	856.6	857.6	856.6
35°	837.5	834.5	828.5	831.5	829.5
37.5°	809.4	806.4	799.4	802.4	804.4
40°	781.3	777.3	771.3	774.3	775.3
42.5°	753.2	746.2	741.1	739.1	746.2
45°	723.1	715.0	710.0	706.0	714.0
47.5°	691.9	682.9	675.9	673.9	680.9
50°	655.8	648.7	641.7	638.7	646.7
52.5°	623.6	612.6	604.6	602.6	609.6
55°	584.5	576.4	568.4	565.4	569.4
57.5°	546.3	537.3	526.2	526.2	532.3
60°	505.1	496.1	485.1	486.1	492.1
62.5°	461.0	454.9	439.9	443.9	449.9
65°	418.8	409.7	396.7	400.7	406.7
67.5°	373.6	365.5	353.5	354.5	357.5
70°	328.4	318.3	311.3	304.3	304.3
72.5°	281.2	273.2	265.1	246.0	242.0
75°	234.0	227.0	216.9	185.8	177.8
77.5°	187.8	182.8	163.7	134.6	131.6
80°	139.6	138.6	113.5	110.5	110.5
82.5°	96.4	92.4	86.4	80.3	77.3
85°	57.2	51.2	51.2	48.2	46.2
87.5°	18.1	21.1	21.1	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)