

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: P393437

Luminaire Tested: **24EN-LD2-30-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393437
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-L93050-W2A-1-U (4000K)
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: 2668.6 lumens
Efficiency: N/A
Efficacy: 128.9 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

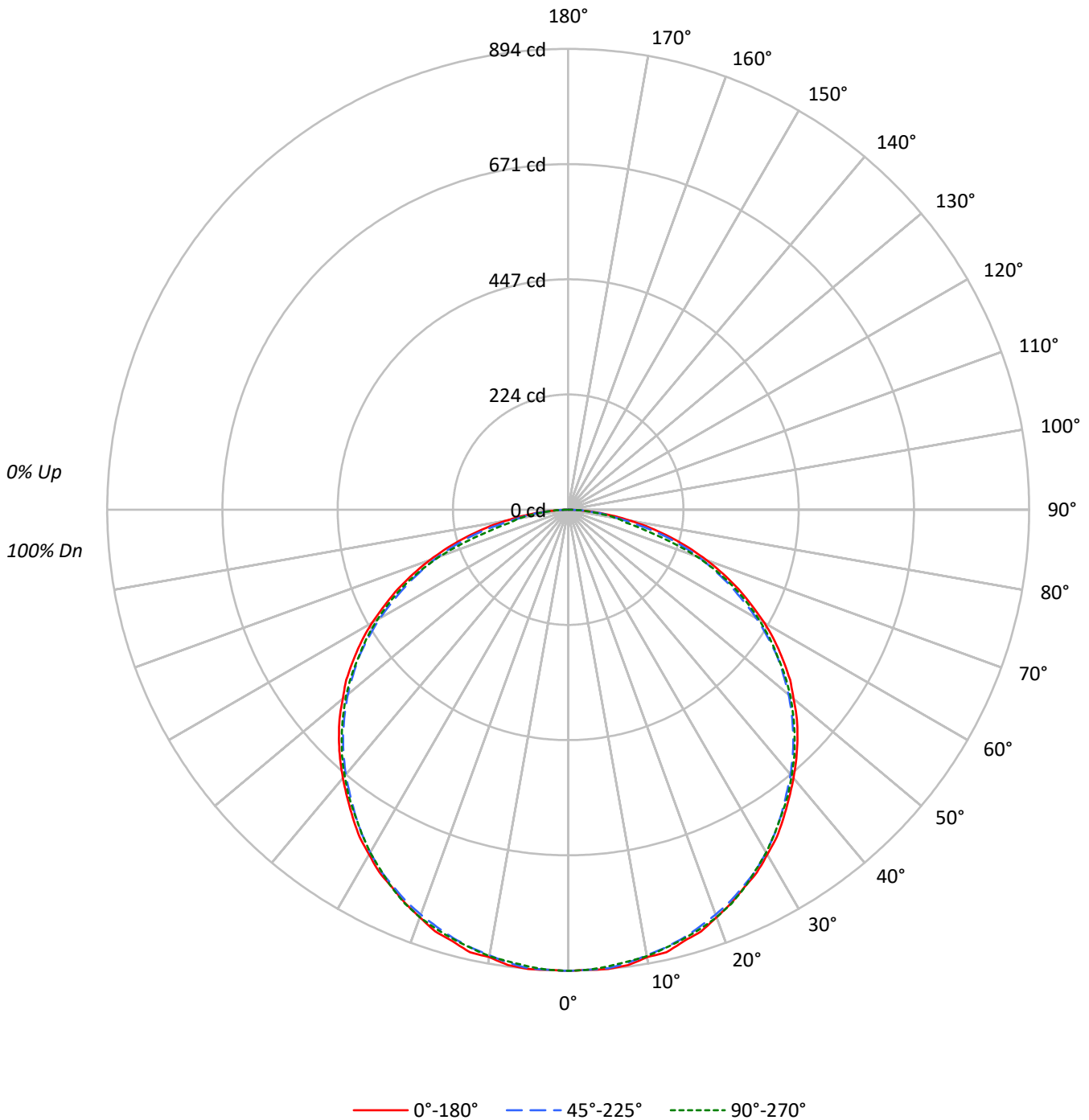
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393437

CATALOG NUMBER: 24EN-LD2-30-UNV-L93050-W2A-1-U (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393437

CATALOG NUMBER: 24EN-LD2-30-UNV-L93050-W2A-1-U (4000K)

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°	1204	1204	1204
5°	1208	1206	1201
10°	1204	1199	1202
15°	1207	1198	1201
20°	1204	1197	1204
25°	1200	1196	1201
30°	1200	1193	1193
35°	1197	1184	1185
40°	1194	1178	1184
45°	1197	1175	1182
50°	1194	1168	1177
55°	1193	1160	1162
60°	1182	1135	1152
65°	1160	1098	1126
70°	1124	1065	1041
75°	1058	981	804
80°	941	765	745
85°	769	687	621



TEST NUMBER: P393437

CATALOG NUMBER: 24EN-LD2-30-UNV-L93050-W2A-1-U (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	3.2
10°-20°	243.2	9.1
20°-30°	371.7	13.9
30°-40°	453.0	17.0
40°-50°	478.2	17.9
50°-60°	443.9	16.6
60°-70°	347.7	13.0
70°-80°	194.4	7.3
80°-90°	51.7	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°	699.7	26.2
0°-40°	1152.7	43.2
0°-60°	2074.8	77.7
0°-90°	2668.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2668.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	894	894	893	893	889	85
15°	866	861	860	860	862	245
25°	808	807	805	803	809	373
35°	728	726	721	723	722	456
45°	629	622	618	614	621	485
55°	508	501	494	492	495	454
65°	364	356	345	348	354	360
75°	204	197	189	162	155	215
85°	50	44	44	42	40	57
90°	0	0	0	0	0	



TEST NUMBER: P393437

CATALOG NUMBER: 24EN-LD2-30-UNV-L93050-W2A-1-U (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.5	894.5	894.5	894.5	894.5
2.5°	893.6	895.3	893.6	891.9	893.6
5°	894.5	893.6	892.7	892.7	889.2
7.5°	891.0	889.2	886.6	887.5	884.0
10°	881.4	881.4	877.9	880.5	879.6
12.5°	879.6	870.9	870.0	870.9	870.9
15°	866.5	861.3	860.4	859.5	862.2
17.5°	857.8	849.0	848.2	846.4	852.5
20°	841.2	835.9	835.9	833.3	841.2
22.5°	826.3	821.1	822.0	818.5	827.2
25°	808.0	807.1	805.4	802.8	808.9
27.5°	793.1	789.7	788.8	786.2	787.9
30°	772.2	771.3	767.8	766.9	767.8
32.5°	753.0	750.3	745.1	746.0	745.1
35°	728.5	725.9	720.6	723.3	721.5
37.5°	704.0	701.4	695.3	697.9	699.7
40°	679.6	676.1	670.9	673.5	674.3
42.5°	655.1	649.0	644.6	642.9	649.0
45°	628.9	621.9	617.6	614.1	621.1
47.5°	601.8	594.0	587.9	586.1	592.2
50°	570.4	564.3	558.2	555.6	562.5
52.5°	542.4	532.8	525.9	524.1	530.2
55°	508.4	501.4	494.4	491.8	495.3
57.5°	475.2	467.3	457.7	457.7	463.0
60°	439.4	431.5	421.9	422.8	428.0
62.5°	400.9	395.7	382.6	386.1	391.3
65°	364.3	356.4	345.0	348.5	353.8
67.5°	324.9	318.0	307.5	308.3	311.0
70°	285.6	276.9	270.8	264.7	264.7
72.5°	244.6	237.6	230.6	214.0	210.5
75°	203.5	197.4	188.7	161.6	154.6
77.5°	163.3	159.0	142.4	117.0	114.4
80°	121.4	120.5	98.7	96.1	96.1
82.5°	83.9	80.4	75.1	69.9	67.3
85°	49.8	44.5	44.5	41.9	40.2
87.5°	15.7	18.3	18.3	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)