

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: P393307

Luminaire Tested: **22EN-LD2-30-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-30-UNV-L93050-W2A-1-U (3000K)
Description: 2X2 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: 2464.8 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

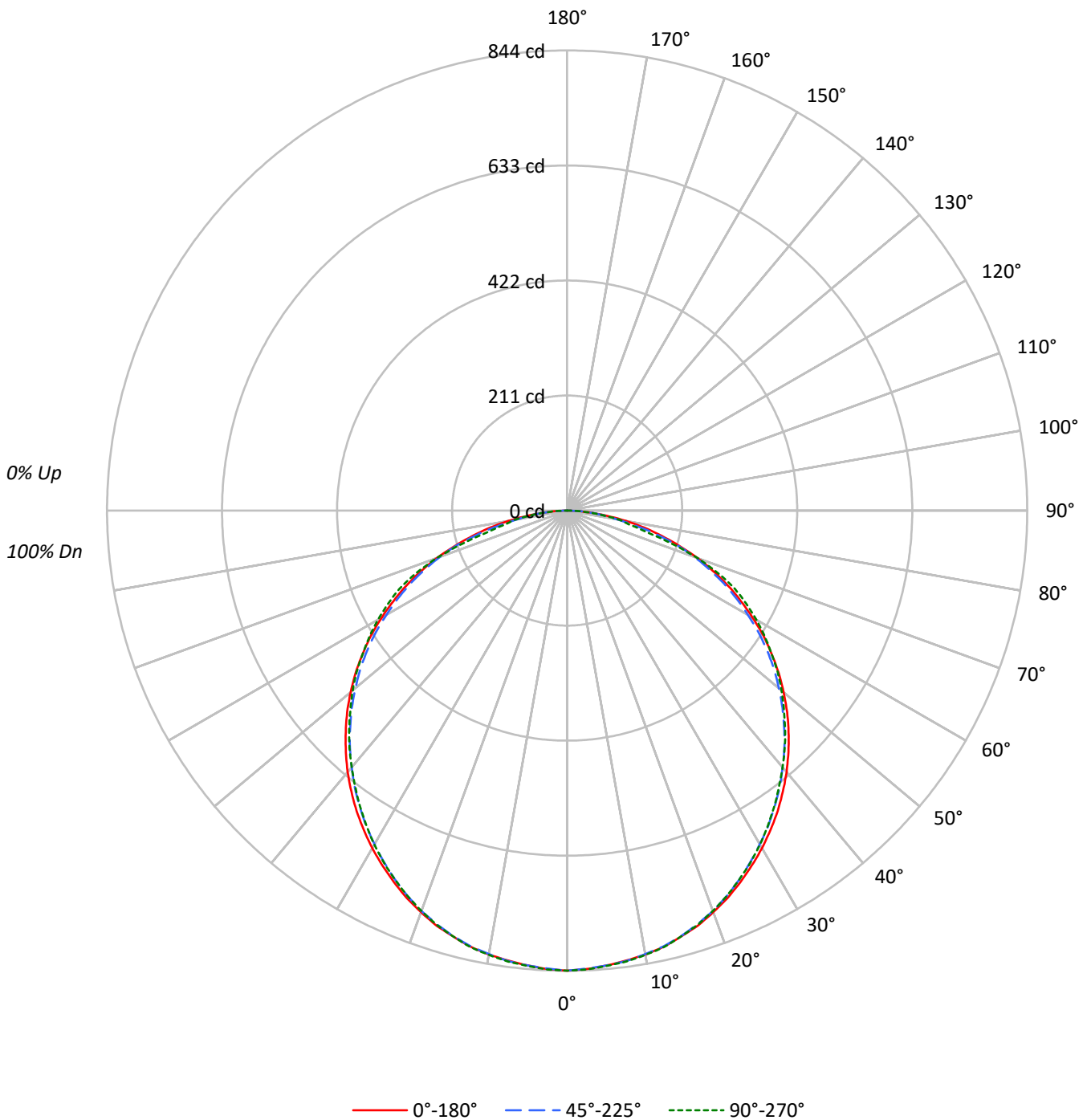
Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	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	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2271	2271	2271
5°	2262	2262	2264
10°	2259	2257	2261
15°	2253	2250	2253
20°	2245	2238	2238
25°	2233	2218	2218
30°	2221	2196	2198
35°	2211	2178	2176
40°	2200	2159	2159
45°	2186	2142	2152
50°	2171	2123	2150
55°	2147	2101	2147
60°	2114	2061	2158
65°	2072	2020	2161
70°	1998	1953	1998
75°	1862	1777	1538
80°	1694	1440	1516
85°	1244	1269	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.2
10°-20°	228.6	9.3
20°-30°	345.6	14.0
30°-40°	417.5	16.9
40°-50°	438.3	17.8
50°-60°	405.8	16.5
60°-70°	320.9	13.0
70°-80°	180.0	7.3
80°-90°	48.3	2.0
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°	654.0	26.5
0°-40°	1071.5	43.5
0°-60°	1915.6	77.7
0°-90°	2464.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	837	846	837	838	838	80
15°	809	817	808	807	809	228
25°	752	758	747	744	747	347
35°	673	678	663	660	662	421
45°	574	578	563	560	565	443
55°	458	458	448	452	458	409
65°	325	325	317	328	339	321
75°	179	180	171	154	148	190
85°	40	40	41	40	39	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	843.9	843.9	843.9	843.9	843.9
2.5°	841.5	848.9	840.6	841.5	842.3
5°	837.4	845.6	837.4	838.2	838.2
7.5°	832.4	840.6	833.2	832.4	834.1
10°	826.7	834.9	825.9	826.7	827.5
12.5°	819.3	826.7	818.5	818.5	820.1
15°	808.6	816.8	807.8	807.0	808.6
17.5°	797.9	804.5	795.4	794.6	796.3
20°	783.9	791.3	781.5	779.8	781.5
22.5°	769.2	775.7	765.0	763.4	765.0
25°	751.9	758.5	747.0	744.5	747.0
27.5°	733.8	739.6	727.2	724.8	728.1
30°	714.9	720.7	706.7	704.2	707.5
32.5°	694.4	699.3	686.2	682.0	685.3
35°	673.0	677.9	663.1	659.9	662.3
37.5°	650.0	654.9	640.1	636.9	638.5
40°	626.2	630.3	614.7	611.4	614.7
42.5°	600.7	604.8	590.0	587.5	590.8
45°	574.4	577.7	562.9	560.4	565.4
47.5°	547.3	550.6	535.8	535.0	539.1
50°	518.5	521.0	507.0	507.8	513.6
52.5°	488.9	489.8	478.3	480.7	486.5
55°	457.7	458.5	447.9	452.0	457.7
57.5°	426.5	427.3	416.6	421.6	429.8
60°	392.8	393.6	382.9	392.0	401.0
62.5°	359.1	359.9	350.9	360.7	370.6
65°	325.4	325.4	317.2	327.9	339.4
67.5°	290.1	290.1	282.7	293.4	299.9
70°	253.9	254.7	248.2	250.6	253.9
72.5°	216.1	217.8	212.0	203.0	200.5
75°	179.1	180.0	170.9	154.5	147.9
77.5°	144.6	143.0	129.8	115.0	115.0
80°	109.3	107.6	92.9	95.3	97.8
82.5°	73.1	73.1	68.2	67.4	67.4
85°	40.3	40.3	41.1	40.3	39.4
87.5°	17.3	17.3	18.1	18.1	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)