

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: P393260

Luminaire Tested: **22EN-LD2-25-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393260
Test Lab: INNOVATION CENTER (G2)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-25-UNV-L83050-W2A-1-U (3500K)
Description: 2X2 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2502.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

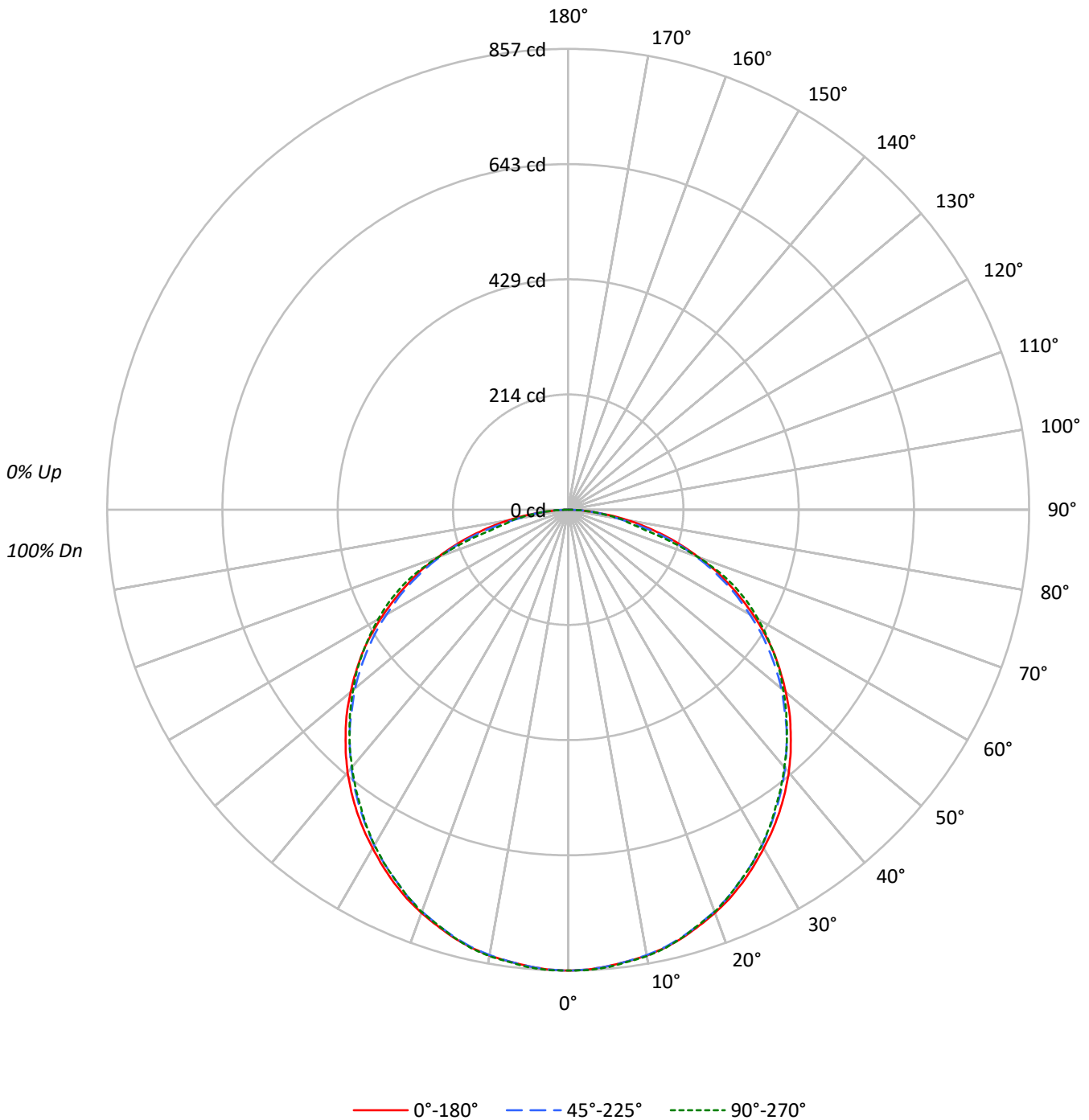
Input Watts (W): 18.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2306	2306	2306
5°	2301	2301	2307
10°	2301	2298	2303
15°	2296	2290	2293
20°	2285	2277	2279
25°	2274	2257	2257
30°	2259	2240	2237
35°	2250	2221	2211
40°	2241	2203	2196
45°	2226	2184	2188
50°	2210	2164	2185
55°	2196	2139	2191
60°	2158	2099	2196
65°	2108	2057	2190
70°	2022	1975	2014
75°	1913	1809	1570
80°	1736	1457	1550
85°	1266	1297	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.2
10°-20°	232.0	9.3
20°-30°	350.9	14.0
30°-40°	423.8	16.9
40°-50°	444.9	17.8
50°-60°	412.2	16.5
60°-70°	325.4	13.0
70°-80°	182.5	7.3
80°-90°	49.3	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°	663.9	26.5
0°-40°	1087.8	43.5
0°-60°	1944.8	77.7
0°-90°	2502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	852	851	852	853	854	81
15°	824	822	822	822	823	232
25°	766	763	760	758	760	353
35°	685	682	676	672	673	429
45°	585	580	574	571	575	452
55°	468	463	456	460	467	417
65°	331	327	323	334	344	327
75°	184	181	174	157	151	194
85°	41	41	42	41	41	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857	857	857	857	857
2.5°	856	855	856	856	857
5°	852	851	852	853	854
7.5°	847	846	847	848	848
10°	842	840	841	842	843
12.5°	834	833	833	833	835
15°	824	822	822	822	823
17.5°	811	810	809	809	809
20°	798	796	795	794	796
22.5°	783	781	779	777	779
25°	766	763	760	758	760
27.5°	747	745	741	738	741
30°	727	724	721	718	720
32.5°	707	704	699	695	698
35°	685	682	676	672	673
37.5°	662	658	652	648	650
40°	638	634	627	622	625
42.5°	612	608	601	598	601
45°	585	580	574	571	575
47.5°	558	554	545	545	549
50°	528	524	517	517	522
52.5°	498	493	487	489	496
55°	468	463	456	460	467
57.5°	435	431	424	430	438
60°	401	396	390	398	408
62.5°	366	362	357	367	378
65°	331	327	323	334	344
67.5°	297	292	288	298	305
70°	257	254	251	253	256
72.5°	221	218	215	207	204
75°	184	181	174	157	151
77.5°	148	145	132	117	118
80°	112	109	94	97	100
82.5°	77	73	70	69	69
85°	41	41	42	41	41
87.5°	17	18	18	18	18
90°	0	0	0	0	0

(END OF REPORT)