

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: P393004

Luminaire Tested: **14EN-LD2-25-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393004
Test Lab: INNOVATION CENTER (G3)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-25-UNV-L83050-W2A-1-U (3500K)
Description: 1X4 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: 2557.9 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

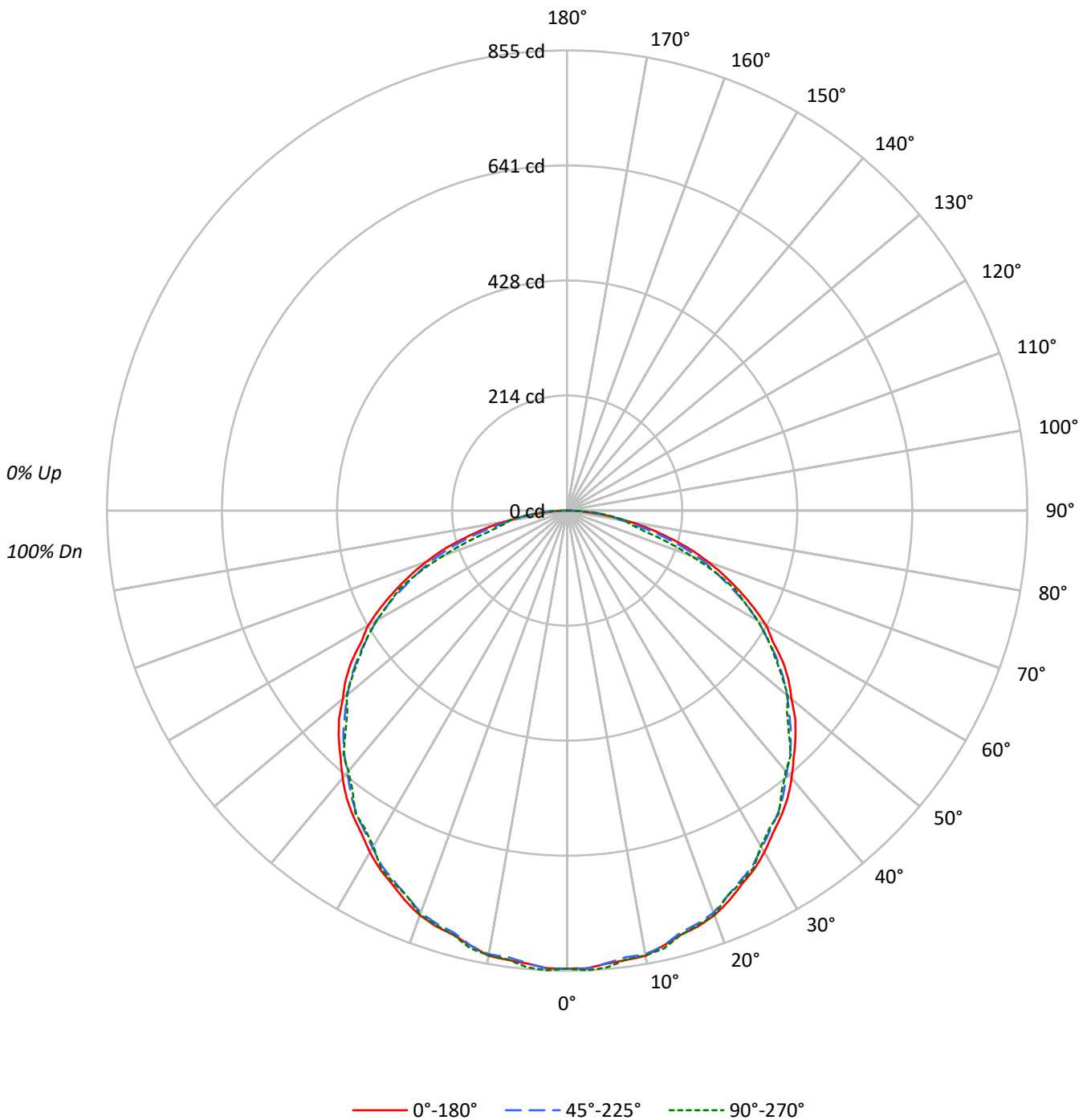
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2290	2290	2290
5°	2283	2280	2301
10°	2295	2287	2293
15°	2273	2262	2273
20°	2291	2277	2288
25°	2277	2257	2265
30°	2278	2247	2237
35°	2277	2247	2254
40°	2280	2231	2220
45°	2283	2238	2215
50°	2277	2231	2240
55°	2294	2224	2205
60°	2298	2201	2196
65°	2248	2120	2184
70°	2195	2085	1920
75°	2048	1882	1549
80°	1813	1565	1705
85°	1297	1760	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	3.1
10°-20°	231.2	9.0
20°-30°	352.0	13.8
30°-40°	428.5	16.8
40°-50°	455.0	17.8
50°-60°	425.7	16.6
60°-70°	336.6	13.2
70°-80°	190.1	7.4
80°-90°	58.1	2.3
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°	663.8	25.9
0°-40°	1092.3	42.7
0°-60°	1973.0	77.1
0°-90°	2557.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2557.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	845	845	844	848	852	81
15°	816	819	812	820	816	231
25°	767	768	760	761	763	354
35°	693	692	684	679	686	434
45°	600	595	588	586	582	463
55°	489	482	474	470	470	436
65°	353	346	333	337	343	350
75°	197	192	181	160	149	209
85°	42	47	57	57	55	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851	851	851	851	851
2.5°	851	853	852	849	855
5°	845	845	844	848	852
7.5°	842	843	837	845	841
10°	840	842	837	836	839
12.5°	828	827	828	828	833
15°	816	819	812	820	816
17.5°	810	814	805	806	808
20°	800	796	795	792	799
22.5°	785	779	776	780	776
25°	767	768	760	761	763
27.5°	752	751	745	743	749
30°	733	727	723	724	720
32.5°	711	710	703	702	700
35°	693	692	684	679	686
37.5°	673	666	661	658	655
40°	649	645	635	633	632
42.5°	623	623	613	607	615
45°	600	595	588	586	582
47.5°	575	570	560	557	554
50°	544	544	533	529	535
52.5°	519	514	505	503	502
55°	489	482	474	470	470
57.5°	453	451	440	437	441
60°	427	419	409	406	408
62.5°	391	384	373	371	373
65°	353	346	333	337	343
67.5°	316	310	298	301	296
70°	279	273	265	254	244
72.5°	241	230	225	204	197
75°	197	192	181	160	149
77.5°	158	153	139	121	122
80°	117	121	101	107	110
82.5°	78	78	83	87	87
85°	42	47	57	57	55
87.5°	16	23	25	25	25
90°	0	0	0	0	0

(END OF REPORT)