

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: P393132

Luminaire Tested: **14EN-LD2-43-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393132  
Test Lab: INNOVATION CENTER (G3)  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-43-UNV-L83050-W2A-1-U (3500K)  
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4252.8 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

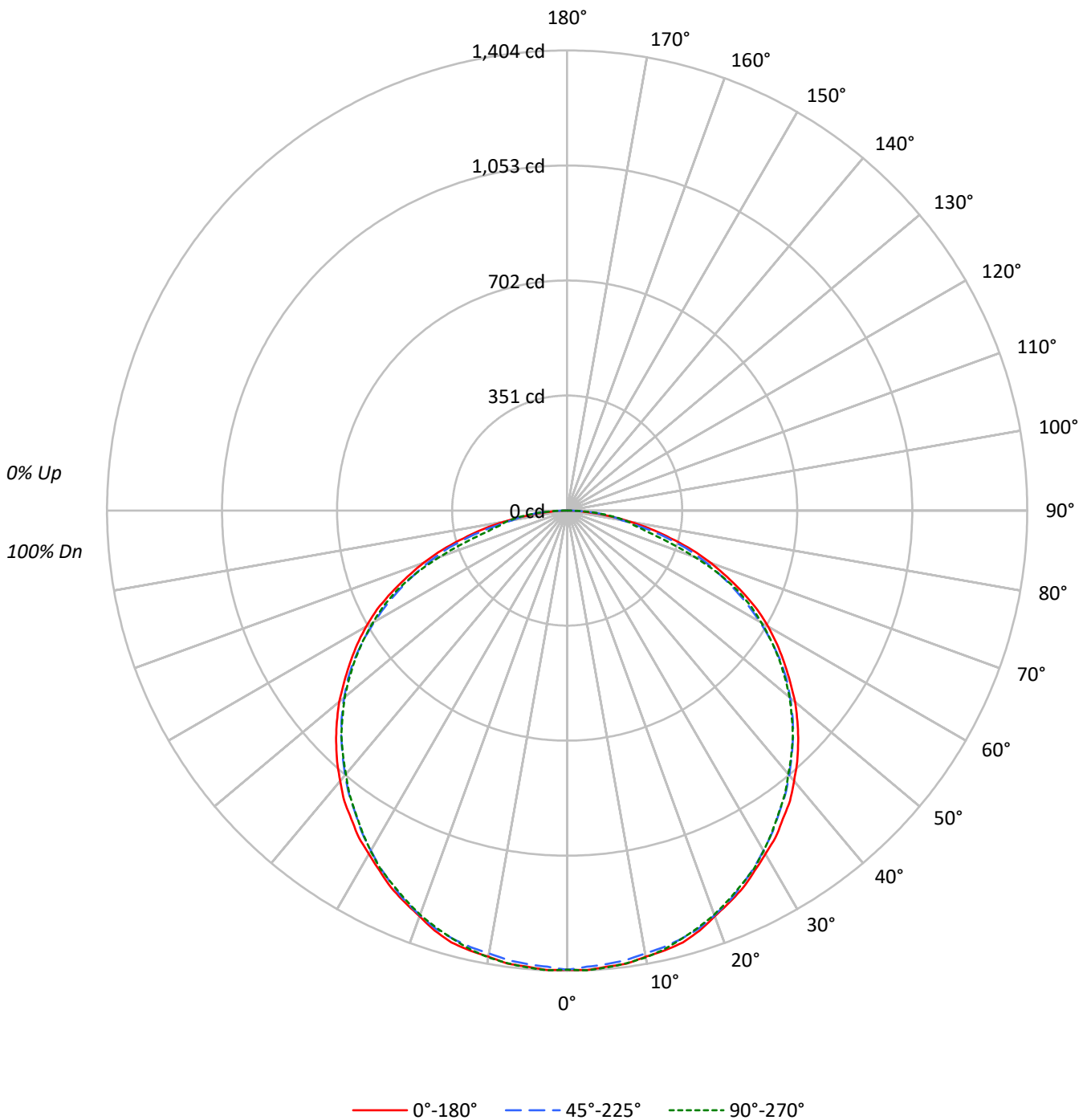
Input Watts (W): 42.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
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°	3770	3770	3770
5°	3774	3752	3779
10°	3776	3749	3782
15°	3800	3767	3767
20°	3771	3763	3757
25°	3771	3744	3738
30°	3760	3723	3726
35°	3771	3702	3699
40°	3783	3703	3688
45°	3794	3710	3707
50°	3801	3718	3709
55°	3791	3720	3702
60°	3810	3660	3687
65°	3763	3566	3636
70°	3666	3462	3265
75°	3400	3192	2662
80°	3006	2603	2867
85°	2192	2841	2902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	3.1
10°-20°	382.3	9.0
20°-30°	581.8	13.7
30°-40°	710.1	16.7
40°-50°	756.6	17.8
50°-60°	709.3	16.7
60°-70°	563.4	13.2
70°-80°	320.4	7.5
80°-90°	96.2	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°	1096.8	25.8
0°-40°	1806.9	42.5
0°-60°	3272.8	77.0
0°-90°	4252.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4252.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1397	1394	1389	1400	1399	133
15°	1364	1360	1352	1350	1352	384
25°	1270	1264	1261	1257	1259	585
35°	1148	1138	1127	1130	1126	719
45°	997	992	975	972	974	769
55°	808	801	793	783	789	723
65°	591	581	560	567	571	584
75°	327	324	307	273	256	349
85°	71	78	92	92	94	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1401	1401	1401	1401	1401
2.5°	1403	1399	1393	1406	1404
5°	1397	1394	1389	1400	1399
7.5°	1394	1388	1383	1395	1393
10°	1382	1383	1372	1384	1384
12.5°	1375	1373	1364	1368	1371
15°	1364	1360	1352	1350	1352
17.5°	1344	1340	1337	1330	1333
20°	1317	1319	1314	1308	1312
22.5°	1294	1292	1290	1284	1286
25°	1270	1264	1261	1257	1259
27.5°	1239	1235	1231	1229	1233
30°	1210	1204	1198	1196	1199
32.5°	1183	1172	1165	1166	1163
35°	1148	1138	1127	1130	1126
37.5°	1117	1105	1093	1096	1091
40°	1077	1070	1054	1056	1050
42.5°	1039	1035	1014	1015	1012
45°	997	992	975	972	974
47.5°	953	948	933	926	929
50°	908	902	888	882	886
52.5°	857	854	843	834	837
55°	808	801	793	783	789
57.5°	760	752	737	732	738
60°	708	695	680	676	685
62.5°	654	639	620	621	632
65°	591	581	560	567	571
67.5°	527	519	499	509	498
70°	466	456	440	427	415
72.5°	401	389	379	345	331
75°	327	324	307	273	256
77.5°	264	257	234	208	210
80°	194	199	168	180	185
82.5°	128	131	139	145	144
85°	71	78	92	92	94
87.5°	27	35	40	41	41
90°	0	0	0	0	0

(END OF REPORT)