

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: P29267

Luminaire Tested: **4WPLD4040C**

Test Date: 02/14/17



Test Information

Test Method: LM-79-08
Report Number: P29267
Test Lab: INNOVATION CENTER-P2
Test Date: 02/14/17
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4WPLD4040C
Description: 4' LOW PROFILE LED WRAP 4000LM
Light Source: -
Ballast/Driver: -

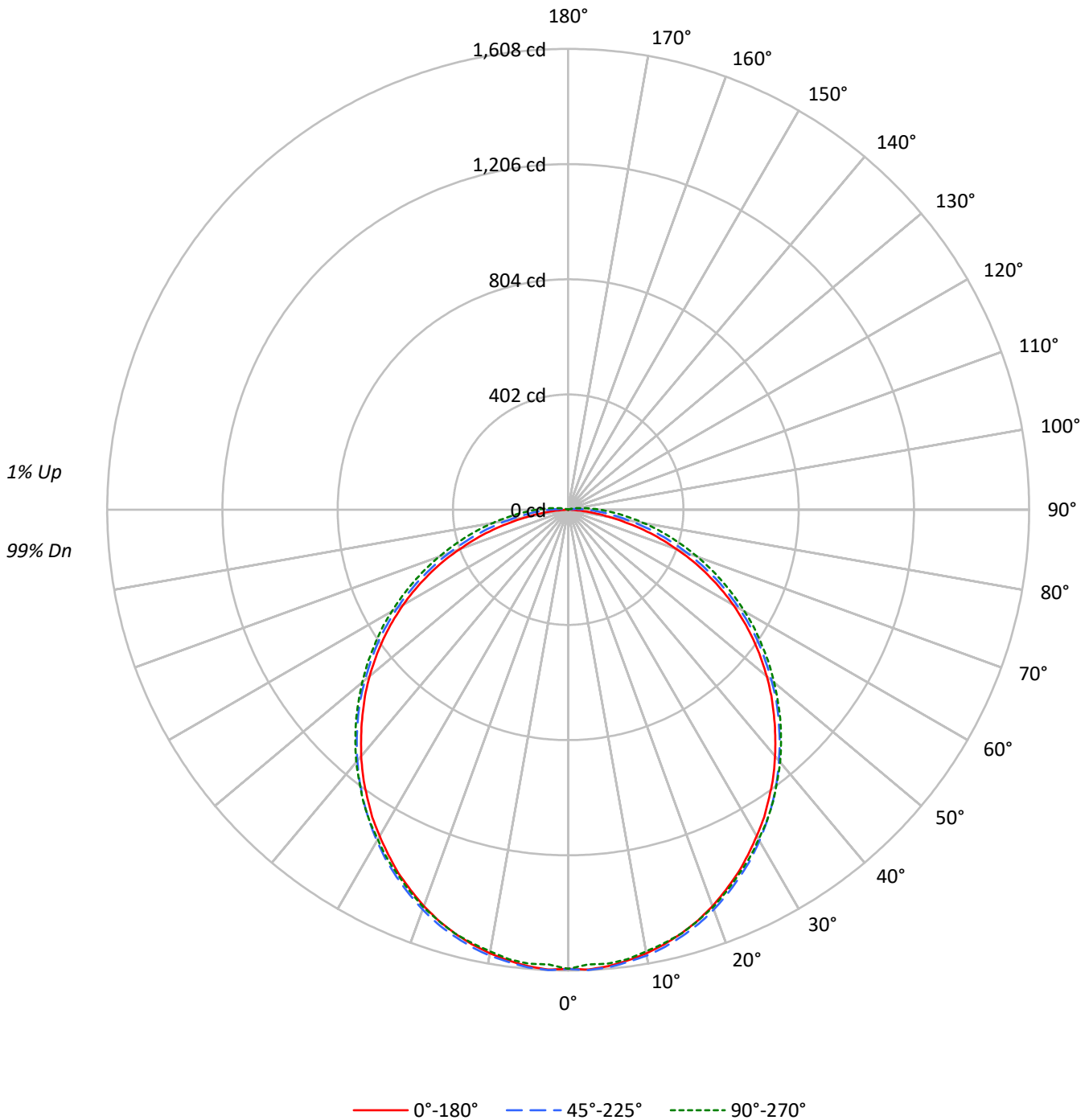
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4602.7 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.58' x H: 0.08')
CIE Type: Direct

Input Watts (W): 42
Input Voltage (V): 120.0
Input Current (A_{in}): 0.352
Voltage Rise (V): NR
Power Factor: 0.9968
Total Harmonic Distortion (THDi): 6.80
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 8 HR
Ambient Temperature (°C): 25.0
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99				
1	108	103	99	94	105	101	97	93	96	93	90	92	89	87	88	86	84	82				
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70	68				
3	89	79	70	64	87	77	69	63	74	67	62	71	65	60	68	63	59	57				
4	82	69	61	54	79	68	60	53	65	58	52	63	57	52	61	55	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	49	43	39	37				
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	34	32				
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29				
9	56	42	34	29	54	42	34	28	41	33	28	39	33	28	38	32	28	26				
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14437	14437	14437
5°	14435	14260	14075
10°	14326	13982	13716
15°	14186	13660	13378
20°	13998	13305	12974
25°	13771	12907	12521
30°	13502	12488	12076
35°	13239	12055	11656
40°	12958	11580	11183
45°	12642	11087	10675
50°	12332	10541	10132
55°	11967	9986	9552
60°	11521	9318	8942
65°	10907	8533	8245
70°	9956	7607	7482
75°	8714	6534	6647
80°	6648	5324	5731
85°	3757	4060	4798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	3.3
10°-20°	432.2	9.4
20°-30°	648.2	14.1
30°-40°	773.2	16.8
40°-50°	796.8	17.3
50°-60°	721.6	15.7
60°-70°	559.1	12.1
70°-80°	340.9	7.4
80°-90°	136.7	3.0
90°-100°	33.8	0.7
100°-110°	6.8	0.1
110°-120°	1.8	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°	1231.9	26.8
0°-40°	2005.1	43.6
0°-60°	3523.5	76.6
0°-90°	4560.3	99.1
90°-120°	42.5	0.9
90°-150°	42.5	0.9
90°-180°	42.0	0.9
0°-180°	4602.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1602	1602	1602	1602	1602	
5°	1599	1590	1603	1597	1590	152
15°	1530	1524	1540	1538	1530	431
25°	1400	1396	1415	1413	1406	644
35°	1223	1221	1244	1246	1245	765
45°	1015	1014	1038	1048	1047	783
55°	787	787	811	825	825	703
65°	537	540	566	589	594	531
75°	272	284	323	358	369	287
85°	46	75	126	166	179	59
90°	0	22	63	98	110	2
95°	0	4	26	51	61	0
105°	1	1	4	10	13	1
115°	2	1	2	4	5	1
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1602	1602	1602	1602	1602
2.5°	1606	1596	1608	1602	1588
5°	1599	1590	1603	1597	1590
7.5°	1587	1579	1592	1587	1582
10°	1572	1565	1580	1574	1565
12.5°	1553	1546	1562	1556	1549
15°	1530	1524	1540	1538	1530
17.5°	1503	1497	1515	1512	1504
20°	1472	1466	1485	1482	1476
22.5°	1436	1433	1451	1448	1442
25°	1400	1396	1415	1413	1406
27.5°	1358	1356	1377	1376	1370
30°	1315	1312	1334	1335	1328
32.5°	1272	1267	1290	1292	1289
35°	1223	1221	1244	1246	1245
37.5°	1175	1171	1195	1198	1197
40°	1123	1120	1144	1151	1150
42.5°	1069	1068	1092	1100	1099
45°	1015	1014	1038	1048	1047
47.5°	961	961	984	994	992
50°	904	901	925	940	938
52.5°	846	845	868	884	883
55°	787	787	811	825	825
57.5°	727	729	750	767	770
60°	665	666	690	707	711
62.5°	602	603	628	649	652
65°	537	540	566	589	594
67.5°	472	476	503	530	536
70°	402	411	442	470	479
72.5°	337	347	382	413	422
75°	272	284	323	358	369
77.5°	206	225	268	305	317
80°	145	167	215	255	267
82.5°	91	117	167	208	220
85°	46	75	126	166	179
87.5°	13	43	91	129	142
90°	0	22	63	98	110
92.5°	0	10	42	72	83
95°	0	4	26	51	61
97.5°	0	2	16	35	43
100°	1	2	9	23	30
102.5°	1	1	6	15	20
105°	1	1	4	10	13
107.5°	1	1	4	7	9
110°	1	1	3	5	6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1	1	3	5	5
115°	2	1	2	4	5
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)