

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: G2-1808-899-2

Luminaire Tested: **4APSH4040R**

Test Date: 08/31/18



Test Information

Test Method: LM-79-08
Report Number: G2-1808-899-2
Test Lab: INNOVATION CENTER(G2)
Test Date: 08/31/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4APSH4040R
Description: SHOPLIGHT 4FT LED 40L 4000K 120V W-PULLCHAIN
Light Source: (120) BRIDGELUX 4000K 80 CRI LEDS
DS152-BXEN-40E-21M-3A
Ballast/Driver: (1) ELECTRONIC 120V DRIVER @330mA
LB020CN-610C X2

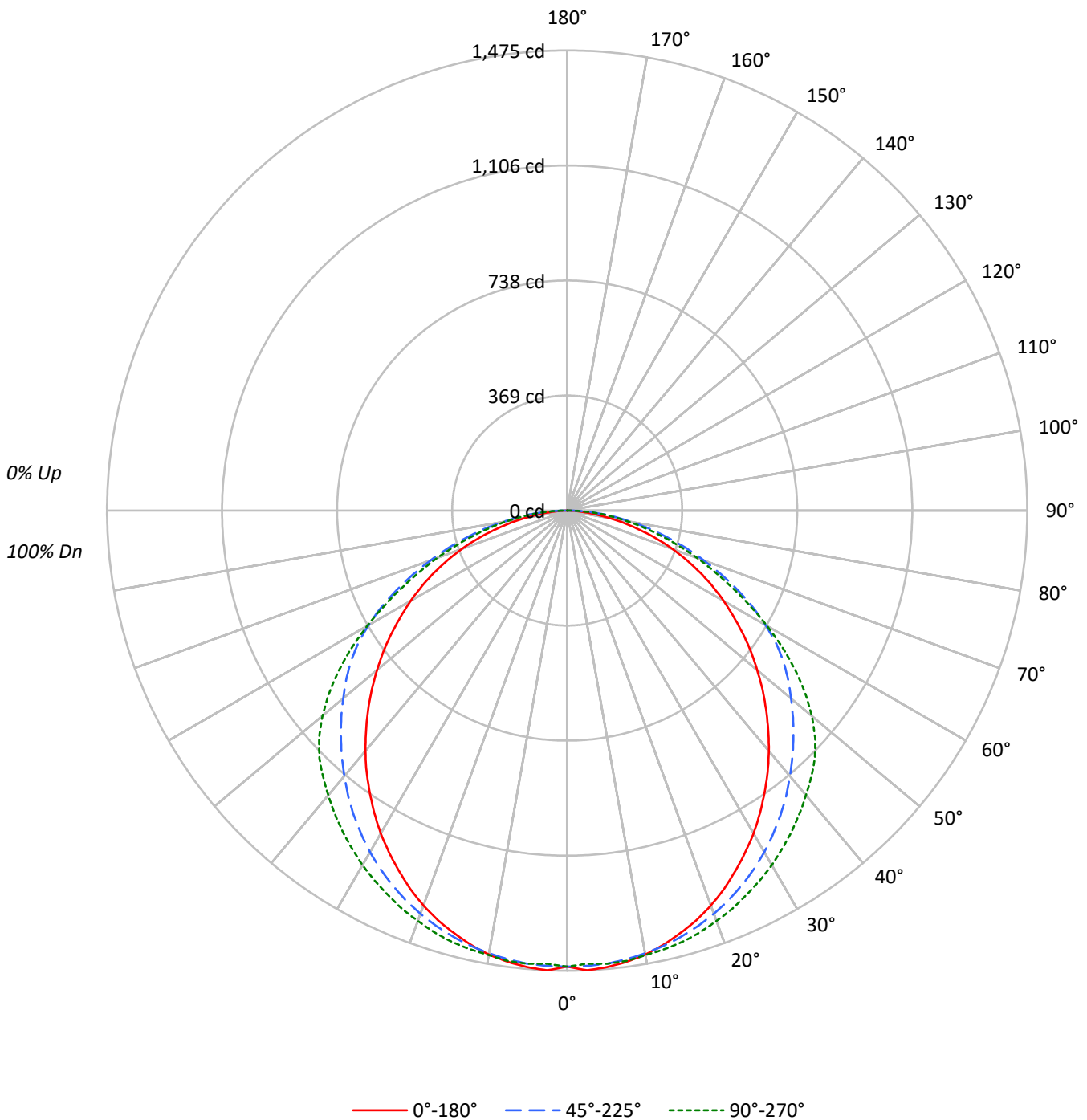
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4389.6 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.33 / 1.41
Luminous Opening: Rectangular (W 0.12' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.334
Voltage Rise (V): NR
Power Factor: 0.9927
Total Harmonic Distortion (THDi): 9.90%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 24 HR
Ambient Temperature (°C): 25.5
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	59	51	45		57	50	45		55	49	44	42
6	69	56	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		43	36	31		41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32842	32842	32842
5°	33125	32877	32877
10°	32961	32870	33007
15°	32605	32884	33280
20°	32201	32870	33468
25°	31602	32842	33684
30°	30997	32787	34032
35°	30248	32689	34416
40°	29500	32579	34925
45°	28655	32595	35676
50°	27783	32746	35786
55°	26906	33172	34974
60°	26058	33022	33246
65°	24982	32105	31042
70°	23579	30541	29096
75°	21091	28815	26993
80°	17852	27166	25097
85°	12629	26032	24228



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.2
10°-20°	398.0	9.1
20°-30°	606.2	13.8
30°-40°	738.2	16.8
40°-50°	783.0	17.8
50°-60°	726.7	16.6
60°-70°	559.6	12.7
70°-80°	332.1	7.6
80°-90°	104.2	2.4
90°-100°	2.4	0.1
100°-110°	0.5	0.0
110°-120°	0.2	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°	1142.7	26.0
0°-40°	1880.9	42.8
0°-60°	3390.6	77.2
0°-90°	4386.6	99.9
90°-120°	3.1	0.1
90°-150°	3.1	0.1
90°-180°	3.0	0.1
0°-180°	4389.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1469	1452	1458	1451	1458	139
15°	1402	1393	1414	1419	1431	396
25°	1275	1278	1325	1339	1359	588
35°	1103	1121	1192	1226	1255	690
45°	902	937	1026	1086	1123	696
55°	687	739	847	882	893	615
65°	470	537	604	591	584	465
75°	243	324	332	317	311	260
85°	49	99	101	96	94	59
90°	2	10	12	13	13	3
95°	0	3	1	0	0	0
105°	0	1	1	0	0	0
115°	0	1	0	0	0	0
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°	1462	1462	1462	1462	1462
2.5°	1475	1457	1461	1455	1454
5°	1469	1452	1458	1451	1458
7.5°	1459	1443	1451	1446	1456
10°	1445	1430	1441	1439	1447
12.5°	1426	1412	1429	1428	1440
15°	1402	1393	1414	1419	1431
17.5°	1377	1368	1396	1403	1417
20°	1347	1341	1375	1384	1400
22.5°	1313	1311	1352	1361	1382
25°	1275	1278	1325	1339	1359
27.5°	1236	1242	1296	1314	1337
30°	1195	1205	1264	1287	1312
32.5°	1150	1163	1229	1257	1284
35°	1103	1121	1192	1226	1255
37.5°	1056	1076	1153	1192	1224
40°	1006	1031	1111	1158	1191
42.5°	954	984	1069	1122	1158
45°	902	937	1026	1086	1123
47.5°	849	887	982	1048	1078
50°	795	838	937	1001	1024
52.5°	743	790	893	945	962
55°	687	739	847	882	893
57.5°	632	689	795	816	819
60°	580	639	735	742	740
62.5°	525	588	672	667	661
65°	470	537	604	591	584
67.5°	414	488	534	520	510
70°	359	437	465	449	443
72.5°	303	382	400	382	374
75°	243	324	332	317	311
77.5°	190	267	271	259	251
80°	138	208	210	199	194
82.5°	90	152	153	146	143
85°	49	99	101	96	94
87.5°	17	51	52	49	47
90°	2	10	12	13	13
92.5°	0	4	2	0	0
95°	0	3	1	0	0
97.5°	0	2	1	0	0
100°	0	2	1	0	0
102.5°	0	1	1	0	0
105°	0	1	1	0	0
107.5°	0	1	0	0	0
110°	0	1	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	1	0	0	0
115°	0	1	0	0	0
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)