

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: G2-1808-899-1

Luminaire Tested: **3APSH3040R**

Test Date: 08/31/18



Test Information

Test Method: LM-79-08
Report Number: G2-1808-899-1
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: 3APSH3040R
Description: SHOPLIGHT 3FT LED 30L 4000K 120V CORD-PLUG
Light Source: (80) BRIDGELUX 4000K 80 CRI LED
DS152-BXEN-40E-21M-3A
Ballast/Driver: (1) ELECTRONIC 120V DRIVER @25mA
LB015CN-440C X2

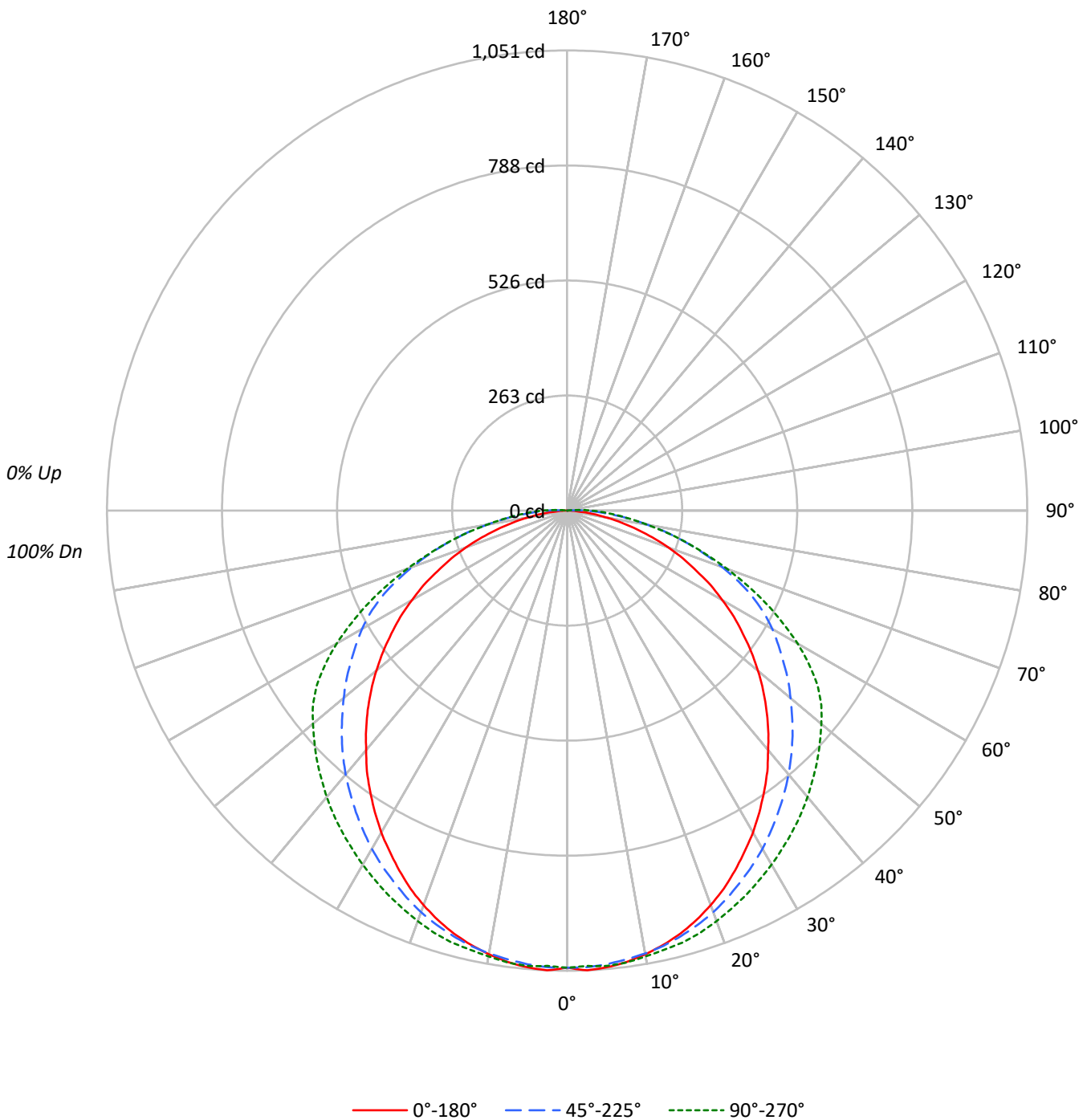
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3252.5 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 0.12' x L: 2.83' x H: 0')
CIE Type: Direct

Input Watts (W): 29.6
Input Voltage (V): 120.0
Input Current (Ain): 0.249
Voltage Rise (V): NR
Power Factor: 0.9919
Total Harmonic Distortion (THDi): 8.61%
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	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	73		80	75	71		77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	55	50		60	54	49	47
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		53	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	52	38	30	25	50	37	30	25	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31729	31729	31729
5°	31942	31729	31851
10°	31756	31694	31910
15°	31464	31653	32125
20°	31017	31567	32278
25°	30415	31388	32461
30°	29795	31304	32778
35°	29088	31203	33243
40°	28327	31224	33882
45°	27680	31290	34729
50°	26903	31490	35840
55°	25964	31951	37038
60°	24861	32884	36957
65°	23444	33656	36029
70°	21860	33412	34478
75°	19375	32997	33114
80°	15927	32554	32554
85°	10810	35569	38358



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	3.0
10°-20°	283.7	8.7
20°-30°	430.8	13.2
30°-40°	524.9	16.1
40°-50°	560.0	17.2
50°-60°	534.5	16.4
60°-70°	433.4	13.3
70°-80°	271.4	8.3
80°-90°	104.0	3.2
90°-100°	10.6	0.3
100°-110°	0.3	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°	813.4	25.0
0°-40°	1338.3	41.1
0°-60°	2432.8	74.8
0°-90°	3241.7	99.7
90°-120°	10.8	0.3
90°-150°	10.8	0.3
90°-180°	11.0	0.3
0°-180°	3252.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1047	1034	1040	1040	1044	99
15°	1000	990	1006	1015	1021	282
25°	907	907	936	956	968	418
35°	784	794	841	878	896	490
45°	644	665	728	783	808	497
55°	490	523	603	674	699	438
65°	326	379	468	496	501	324
75°	165	241	281	283	282	175
85°	31	84	102	108	110	38
90°	1	22	42	52	55	2
95°	0	2	1	6	10	0
105°	0	1	0	0	0	0
115°	0	0	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°	1044	1044	1044	1044	1044
2.5°	1051	1038	1044	1043	1041
5°	1047	1034	1040	1040	1044
7.5°	1040	1027	1034	1037	1041
10°	1029	1017	1027	1030	1034
12.5°	1016	1005	1018	1023	1027
15°	1000	990	1006	1015	1021
17.5°	981	973	992	1004	1011
20°	959	954	976	990	998
22.5°	935	931	957	973	983
25°	907	907	936	956	968
27.5°	878	881	915	938	951
30°	849	854	892	920	934
32.5°	817	825	867	899	915
35°	784	794	841	878	896
37.5°	751	764	814	855	876
40°	714	731	787	832	854
42.5°	680	698	758	808	831
45°	644	665	728	783	808
47.5°	607	630	697	757	783
50°	569	596	666	731	758
52.5°	530	560	636	704	732
55°	490	523	603	674	699
57.5°	452	487	572	639	656
60°	409	451	541	595	608
62.5°	370	415	507	547	555
65°	326	379	468	496	501
67.5°	286	343	424	442	444
70°	246	309	376	388	388
72.5°	204	276	329	334	333
75°	165	241	281	283	282
77.5°	127	201	234	233	233
80°	91	162	186	187	186
82.5°	59	122	143	144	145
85°	31	84	102	108	110
87.5°	11	48	70	79	82
90°	1	22	42	52	55
92.5°	0	4	17	28	31
95°	0	2	1	6	10
97.5°	0	2	1	0	0
100°	0	1	1	0	0
102.5°	0	1	0	0	0
105°	0	1	0	0	0
107.5°	0	1	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

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