

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: HALO

Report Number: P295522

Luminaire Tested: **HU1118D9SMB-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1904-227-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HU1118D9SMB-3000K
Description: HALO HU11 UNDERCABINET LED FIXTURE
18-INCH, SELECTABLE CCT, MATTE BLACK FINISH
Light Source: (84) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

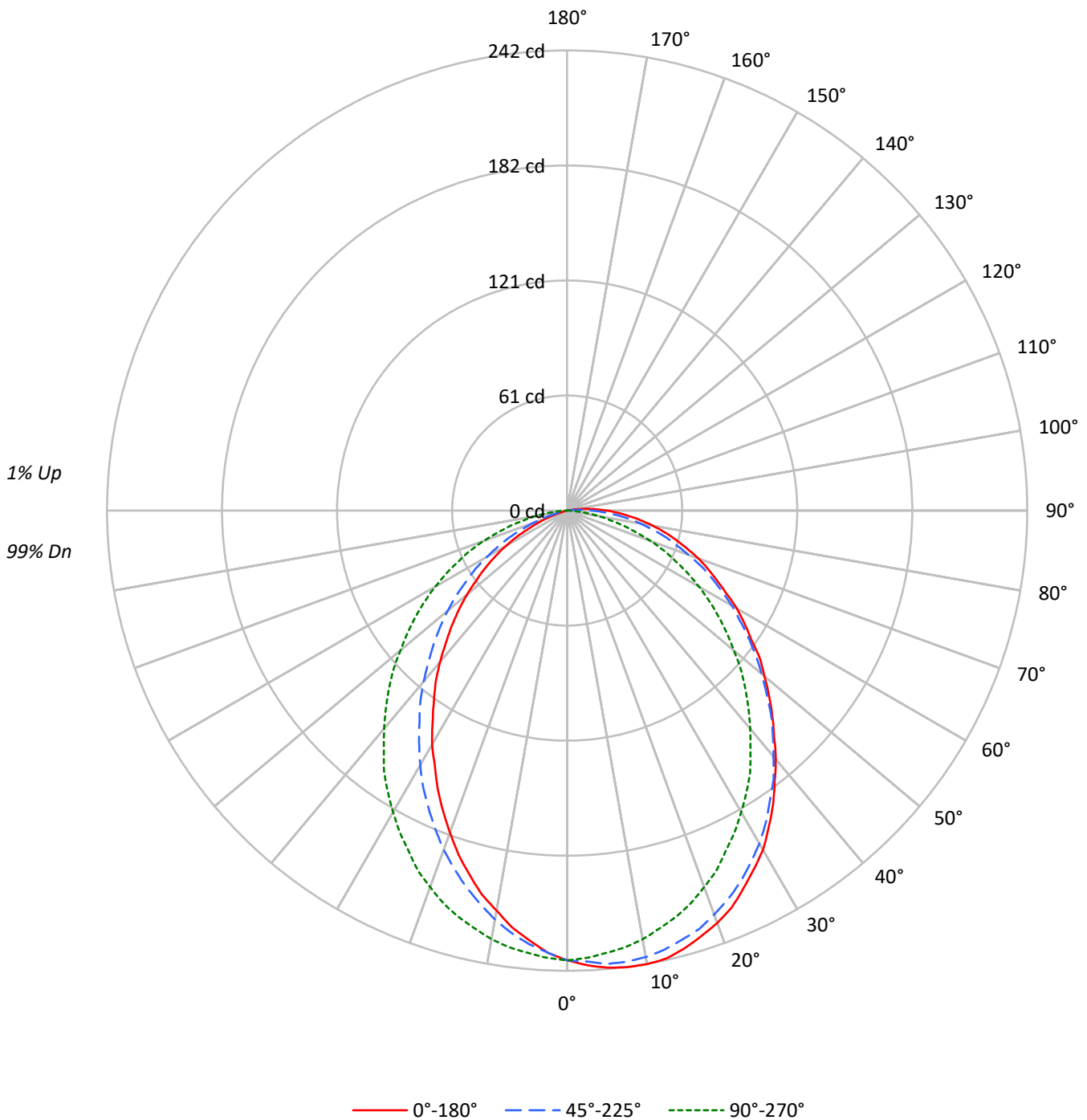
Lumens per Lamp: N/A
Luminaire Lumens: 560.0 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.16 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 1.29' x L: 0.08' x H: 0.04')
CIE Type: Direct

Input Watts (W): 8
Input Voltage (V): 120
Input Current (A_{in}): 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	99
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90	88	86	84
2	100	92	85	79	97	90	84	78	86	81	76		83	78	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	58	54	52
5	77	65	56	50	75	64	55	49	61	54	49		59	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43		54	48	43		52	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	41	35	60	48	40	35	47	40	34		46	39	34		44	38	34	32
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23650	23650	23650
5°	23207	23383	21822
10°	22601	23112	19932
15°	21765	22704	18104
20°	20780	22162	16224
25°	19622	21458	14424
30°	18458	20756	12733
35°	17071	20032	11040
40°	15697	19027	9555
45°	14387	18153	8089
50°	13199	17139	6697
55°	12023	16217	5330
60°	11040	15172	3987
65°	9911	13921	2501
70°	9041	12543	1170
75°	7967	10518	135
80°	6876	8373	0
85°	5536	4024	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	4.0
10°-20°	61.9	11.0
20°-30°	89.4	16.0
30°-40°	100.9	18.0
40°-50°	97.1	17.3
50°-60°	81.7	14.6
60°-70°	58.3	10.4
70°-80°	32.5	5.8
80°-90°	13.3	2.4
90°-100°	2.9	0.5
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°	173.4	31.0
0°-40°	274.3	49.0
0°-60°	453.0	80.9
0°-90°	557.1	99.5
90°-120°	2.9	0.5
90°-150°	2.9	0.5
90°-180°	3.0	0.5
0°-180°	560.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	236	236	236	236	236	
5°	241	239	234	229	227	23
15°	238	234	221	205	198	67
25°	219	216	197	173	161	101
35°	189	186	168	135	122	118
45°	153	152	132	99	86	118
55°	118	116	97	65	52	106
65°	87	84	63	33	22	87
75°	59	53	30	7	1	63
85°	32	26	5	0	0	29
90°	21	13	0	0	0	12
95°	10	4	0	0	0	7
105°	0	0	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



TEST NUMBER: P295522

CATALOG NUMBER: HU1118D9SMB-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5
2.5°	239.3	238.4	237.4	237.4	235.5	234.6	232.7	232.7	232.7
5°	241.3	241.3	239.3	237.4	233.6	232.7	228.9	227.9	226.9
7.5°	242.2	241.3	239.3	236.5	231.7	228.9	224.1	221.2	221.2
10°	242.2	241.3	238.4	234.6	228.9	224.1	218.4	215.5	213.6
12.5°	241.3	240.3	236.5	232.7	225.0	219.3	211.7	207.9	206.9
15°	238.4	237.4	233.6	228.9	221.2	213.6	205.0	200.2	198.3
17.5°	234.6	234.6	230.8	225.0	216.5	206.9	197.4	191.7	189.8
20°	230.8	229.8	226.0	220.3	210.7	200.2	189.8	183.1	180.2
22.5°	226.0	225.0	221.2	214.6	205.0	193.6	181.2	173.5	170.7
25°	219.3	219.3	215.5	208.8	197.4	185.9	172.6	164.0	161.2
27.5°	212.6	212.6	208.8	202.2	190.7	177.4	164.0	154.5	150.7
30°	206.0	206.0	202.2	195.5	183.1	169.7	154.5	144.0	142.1
32.5°	197.4	197.4	194.5	187.9	175.5	160.2	144.9	135.4	131.6
35°	188.8	188.8	185.9	179.3	167.8	151.6	135.4	125.9	122.1
37.5°	179.3	180.2	178.3	171.6	158.3	143.0	126.8	116.3	113.5
40°	170.7	170.7	168.8	163.1	149.7	133.5	117.3	107.8	103.9
42.5°	161.2	162.1	160.2	154.5	141.1	124.9	107.8	98.2	94.4
45°	152.6	152.6	151.6	145.9	132.5	115.4	99.2	89.6	85.8
47.5°	144.0	144.0	142.1	137.3	124.0	106.8	90.6	81.1	77.2
50°	135.4	135.4	133.5	127.8	114.4	98.2	82.0	72.5	68.7
52.5°	127.8	126.8	124.9	119.2	105.8	88.7	73.4	63.9	60.1
55°	118.2	118.2	116.3	111.6	97.3	81.1	64.8	56.3	52.4
57.5°	110.6	110.6	107.8	102.0	88.7	71.5	57.2	47.7	44.8
60°	103.0	102.0	100.1	93.4	80.1	63.9	48.6	40.0	37.2
62.5°	94.4	94.4	91.5	84.9	71.5	55.3	41.0	32.4	29.6
65°	86.8	86.8	83.9	76.3	62.9	46.7	33.4	24.8	21.9
67.5°	80.1	79.1	76.3	67.7	55.3	39.1	25.7	18.1	15.3
70°	73.4	72.5	67.7	60.1	46.7	31.5	19.1	11.4	9.5
72.5°	65.8	64.8	60.1	52.4	38.1	23.8	12.4	6.7	4.8
75°	59.1	57.2	53.4	43.9	30.5	17.2	6.7	1.9	1.0
77.5°	52.4	50.5	45.8	37.2	22.9	10.5	2.9	0.0	0.0
80°	45.8	44.8	39.1	29.6	17.2	4.8	0.0	0.0	0.0
82.5°	39.1	38.1	32.4	22.9	10.5	1.0	0.0	0.0	0.0
85°	32.4	31.5	25.7	16.2	4.8	0.0	0.0	0.0	0.0
87.5°	26.7	24.8	19.1	10.5	1.9	0.0	0.0	0.0	0.0
90°	21.0	19.1	13.3	5.7	0.0	0.0	0.0	0.0	0.0
92.5°	15.3	13.3	8.6	1.9	0.0	0.0	0.0	0.0	0.0
95°	10.5	8.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	5.7	4.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)