

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: P166449

Luminaire Tested: **HU1018D930MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P166449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25787)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HU1018D930MB
Description: HALO HU10 LED UNDERCABINET FIXTURE
18 INCH LENGTH WITH MATTE BLACK FINISH
Light Source: (24) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

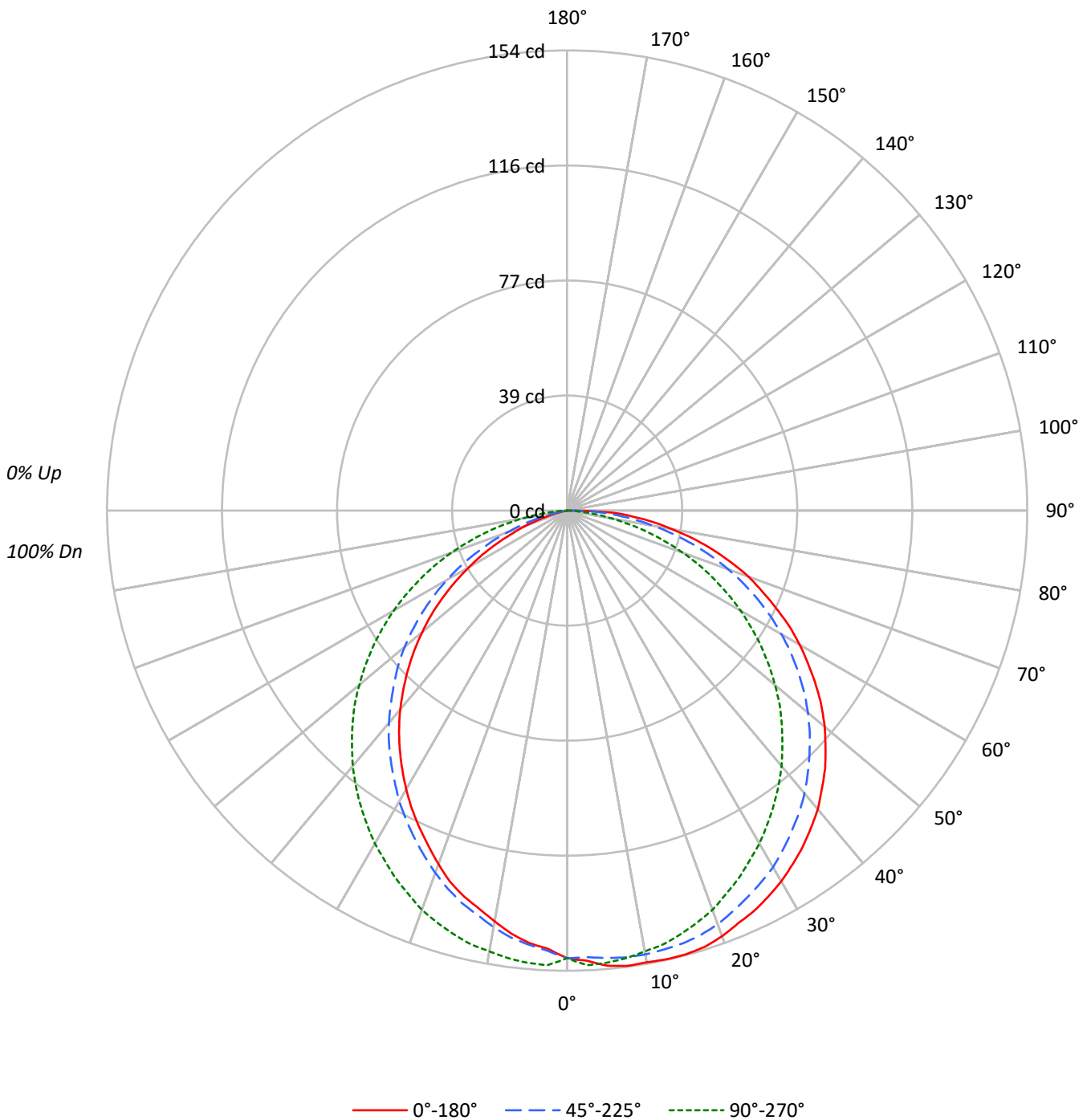
Lumens per Lamp: N/A
Luminaire Lumens: 426.9 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.5' x L: 0.1' x H: 0')
CIE Type: Direct

Input Watts (W): 7.3
Input Voltage (V): NR
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	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10320	10320	10320
5°	10573	10504	10048
10°	10738	10479	9765
15°	10962	10470	9528
20°	11114	10425	9230
25°	11242	10322	8893
30°	11399	10238	8567
35°	11555	10134	8208
40°	11736	10036	7815
45°	11895	9898	7336
50°	12057	9731	6784
55°	12203	9524	6101
60°	12386	9245	5236
65°	12568	8835	4157
70°	13012	8298	2900
75°	13415	7426	1304
80°	14123	5951	0
85°	16994	3873	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	3.3
10°-20°	40.7	9.5
20°-30°	61.4	14.4
30°-40°	74.1	17.3
40°-50°	76.9	18.0
50°-60°	69.3	16.2
60°-70°	52.2	12.2
70°-80°	29.2	6.8
80°-90°	8.9	2.1
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°	116.3	27.2
0°-40°	190.4	44.6
0°-60°	336.6	78.8
0°-90°	426.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	426.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	150	150	150	150	150	
5°	153	150	152	146	145	15
15°	154	150	147	136	134	43
25°	148	143	136	121	117	68
35°	137	131	120	103	98	86
45°	122	115	102	82	75	94
55°	102	94	79	59	51	91
65°	77	70	54	34	26	76
75°	50	44	28	10	5	53
85°	22	16	5	0	0	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8
2.5°	150.8	150.8	149.6	152.2	152.3	149.9	147.5	145.5	146.8
5°	152.9	152.4	150.3	152.2	151.9	148.9	145.9	144.2	145.3
7.5°	153.7	153.5	150.8	152.1	151.1	147.4	144.1	141.9	142.8
10°	153.5	153.6	150.8	151.7	149.8	145.6	141.6	138.9	139.6
12.5°	153.8	153.7	150.4	151.0	148.7	143.6	138.6	136.1	136.4
15°	153.7	153.7	149.9	149.9	146.8	141.1	136.0	133.4	133.6
17.5°	153.1	153.1	148.9	148.1	144.6	138.4	132.7	130.0	130.3
20°	151.6	151.8	147.3	146.2	142.2	135.2	129.0	125.9	125.9
22.5°	149.5	149.9	145.1	143.7	138.9	131.6	125.0	121.5	121.4
25°	147.9	147.9	142.8	140.7	135.8	127.8	120.9	117.1	117.0
27.5°	145.7	145.9	140.4	138.0	132.1	124.1	116.7	113.1	112.5
30°	143.3	143.4	137.8	134.9	128.7	120.0	112.3	108.6	107.7
32.5°	140.4	140.5	134.5	131.2	124.6	115.7	107.5	103.9	102.7
35°	137.4	137.4	131.0	127.6	120.5	111.2	102.8	98.9	97.6
37.5°	134.0	133.9	127.5	123.5	116.2	106.6	98.0	93.8	92.4
40°	130.5	130.4	123.6	119.3	111.6	101.6	92.8	88.6	86.9
42.5°	126.2	126.1	119.2	114.6	106.6	96.4	87.2	83.0	81.1
45°	122.1	121.8	114.7	109.9	101.6	91.2	81.9	77.3	75.3
47.5°	117.3	117.3	110.1	105.2	96.5	86.1	76.7	71.6	69.4
50°	112.5	112.5	105.2	99.9	90.8	80.6	71.0	65.7	63.3
52.5°	107.3	107.2	100.0	94.3	85.1	74.8	64.9	59.6	57.3
55°	101.6	101.7	94.4	88.5	79.3	68.6	58.9	53.3	50.8
57.5°	95.7	95.8	88.8	82.5	73.2	63.0	52.8	46.6	44.4
60°	89.9	89.6	82.9	76.5	67.1	56.3	46.5	40.3	38.0
62.5°	83.8	83.6	76.8	70.3	60.7	50.4	40.2	34.2	31.9
65°	77.1	76.9	70.4	63.8	54.2	43.9	33.7	27.8	25.5
67.5°	70.6	70.3	64.0	57.3	47.9	37.4	27.5	21.7	19.5
70°	64.6	63.4	57.3	50.7	41.2	30.8	21.4	15.9	14.4
72.5°	57.5	56.3	50.5	43.8	34.5	24.3	15.6	10.6	9.2
75°	50.4	49.3	43.6	36.9	27.9	18.2	10.2	6.1	4.9
77.5°	43.0	41.9	36.5	30.0	21.4	12.3	5.5	2.5	1.6
80°	35.6	34.8	29.3	23.1	15.0	7.0	1.9	0.1	0.0
82.5°	28.8	27.8	22.6	16.8	9.9	3.0	0.2	0.2	0.1
85°	21.5	20.5	15.9	10.6	4.9	0.4	0.0	0.0	0.0
87.5°	15.0	14.0	9.9	5.5	1.4	0.1	0.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)