

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: P166448

Luminaire Tested: **HU1018D927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P166448
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: HU1018D927MB
Description: HALO HU10 LED UNDERCABINET FIXTURE
18 INCH LENGTH WITH MATTE BLACK FINISH
Light Source: (24) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

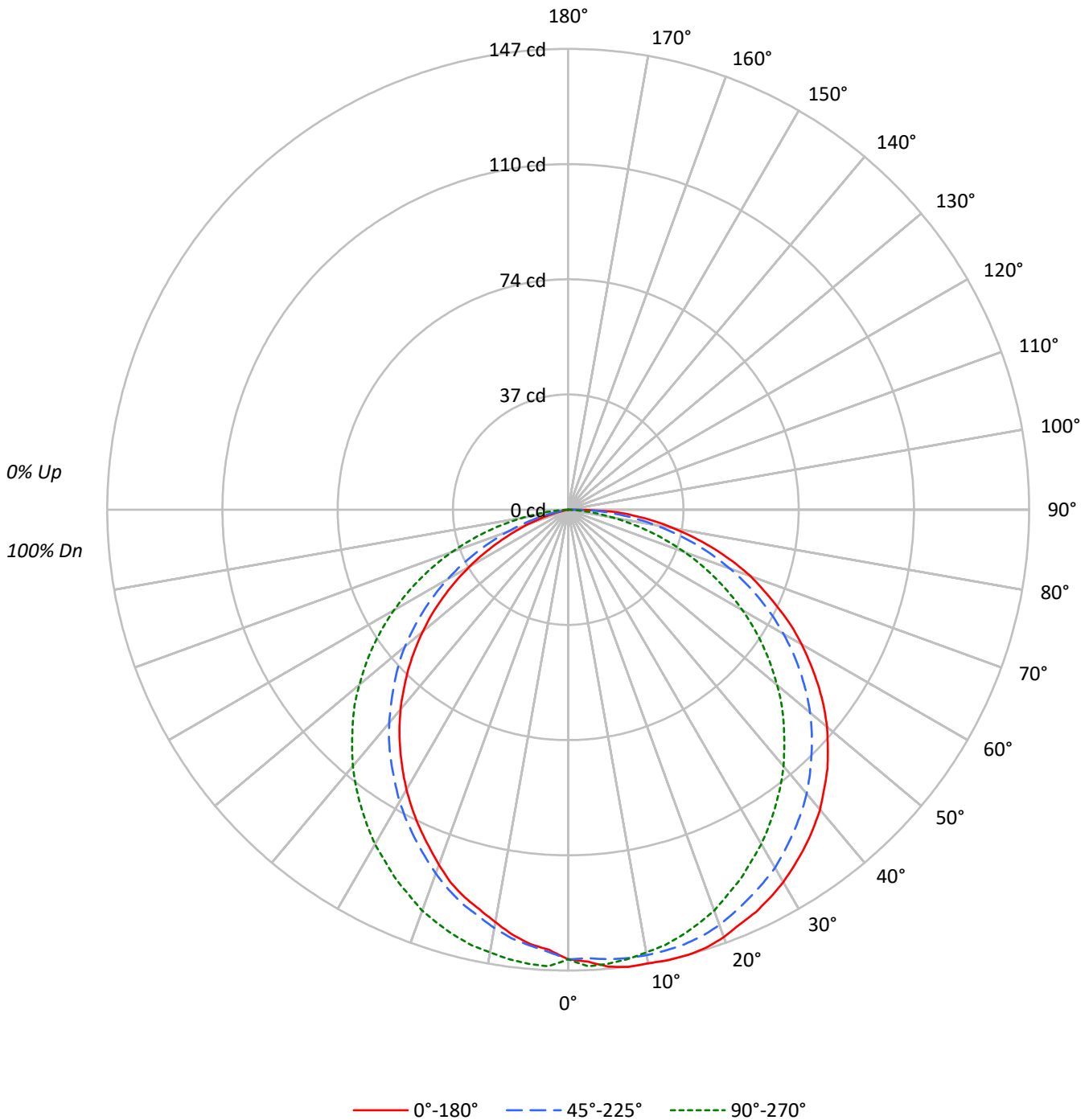
Lumens per Lamp: N/A
Luminaire Lumens: 408.6 lumens
Efficiency: N/A
Efficacy: 56.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.5' x L: 0.1' x H: 0')
CIE Type: Direct

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	54		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°	9879	9879	9879
5°	10117	10055	9619
10°	10276	10031	9346
15°	10491	10020	9122
20°	10637	9977	8834
25°	10763	9881	8513
30°	10914	9800	8201
35°	11059	9696	7855
40°	11232	9604	7482
45°	11389	9470	7024
50°	11542	9313	6495
55°	11674	9116	5837
60°	11849	8845	5015
65°	12030	8460	3977
70°	12448	7936	2780
75°	12829	7107	1251
80°	13528	5713	0
85°	16282	3715	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	3.3
10°-20°	39.0	9.5
20°-30°	58.8	14.4
30°-40°	70.9	17.3
40°-50°	73.6	18.0
50°-60°	66.4	16.2
60°-70°	50.0	12.2
70°-80°	27.9	6.8
80°-90°	8.5	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°	111.3	27.3
0°-40°	182.2	44.6
0°-60°	322.2	78.8
0°-90°	408.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	408.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	143	143	143	143	143	
5°	146	144	145	140	139	14
15°	147	144	140	130	128	42
25°	142	137	130	116	112	65
35°	132	125	115	98	93	82
45°	117	110	97	78	72	90
55°	97	90	76	56	49	87
65°	74	67	52	32	24	73
75°	48	42	27	10	5	51
85°	21	15	5	0	0	22
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°	143.4	143.4	143.4	143.4	143.4	143.4	143.4	143.4	143.4
2.5°	144.3	144.3	143.2	145.7	145.8	143.5	141.2	139.3	140.5
5°	146.3	145.9	143.9	145.7	145.4	142.5	139.6	138.0	139.1
7.5°	147.1	146.9	144.3	145.6	144.6	141.1	137.9	135.8	136.7
10°	146.9	147.0	144.3	145.2	143.4	139.4	135.5	132.9	133.6
12.5°	147.2	147.1	144.0	144.5	142.3	137.4	132.7	130.3	130.6
15°	147.1	147.1	143.5	143.5	140.5	135.1	130.2	127.7	127.9
17.5°	146.5	146.5	142.5	141.8	138.4	132.5	127.0	124.4	124.7
20°	145.1	145.3	141.0	139.9	136.1	129.4	123.5	120.5	120.5
22.5°	143.1	143.5	138.9	137.5	132.9	126.0	119.6	116.3	116.2
25°	141.6	141.6	136.7	134.7	130.0	122.3	115.7	112.1	112.0
27.5°	139.5	139.6	134.4	132.1	126.4	118.8	111.7	108.3	107.7
30°	137.2	137.3	131.9	129.1	123.2	114.9	107.5	103.9	103.1
32.5°	134.4	134.5	128.7	125.6	119.3	110.7	102.9	99.4	98.3
35°	131.5	131.5	125.4	122.1	115.3	106.4	98.4	94.7	93.4
37.5°	128.3	128.2	122.0	118.2	111.2	102.0	93.8	89.8	88.4
40°	124.9	124.8	118.3	114.2	106.8	97.2	88.8	84.8	83.2
42.5°	120.8	120.7	114.1	109.7	102.0	92.3	83.5	79.4	77.6
45°	116.9	116.6	109.8	105.2	97.2	87.3	78.4	74.0	72.1
47.5°	112.3	112.3	105.4	100.7	92.4	82.4	73.4	68.5	66.4
50°	107.7	107.7	100.7	95.6	86.9	77.1	68.0	62.9	60.6
52.5°	102.7	102.6	95.7	90.3	81.5	71.6	62.1	57.0	54.8
55°	97.2	97.3	90.4	84.7	75.9	65.7	56.4	51.0	48.6
57.5°	91.6	91.7	85.0	79.0	70.1	60.3	50.5	44.6	42.5
60°	86.0	85.8	79.3	73.2	64.2	53.9	44.5	38.6	36.4
62.5°	80.2	80.0	73.5	67.3	58.1	48.2	38.5	32.7	30.5
65°	73.8	73.6	67.4	61.1	51.9	42.0	32.3	26.6	24.4
67.5°	67.6	67.3	61.3	54.8	45.8	35.8	26.3	20.8	18.7
70°	61.8	60.7	54.8	48.5	39.4	29.5	20.5	15.2	13.8
72.5°	55.0	53.9	48.3	41.9	33.0	23.3	14.9	10.1	8.8
75°	48.2	47.2	41.7	35.3	26.7	17.4	9.8	5.8	4.7
77.5°	41.2	40.1	34.9	28.7	20.5	11.8	5.3	2.4	1.5
80°	34.1	33.3	28.0	22.1	14.4	6.7	1.8	0.1	0.0
82.5°	27.6	26.6	21.6	16.1	9.5	2.9	0.2	0.2	0.1
85°	20.6	19.6	15.2	10.1	4.7	0.4	0.0	0.0	0.0
87.5°	14.4	13.4	9.5	5.3	1.3	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)