

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: P166450

Luminaire Tested: **HU1018D940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P166450
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: HU1018D940MB
Description: HALO HU10 LED UNDERCABINET FIXTURE
18 INCH LENGTH WITH MATTE BLACK FINISH
Light Source: (24) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

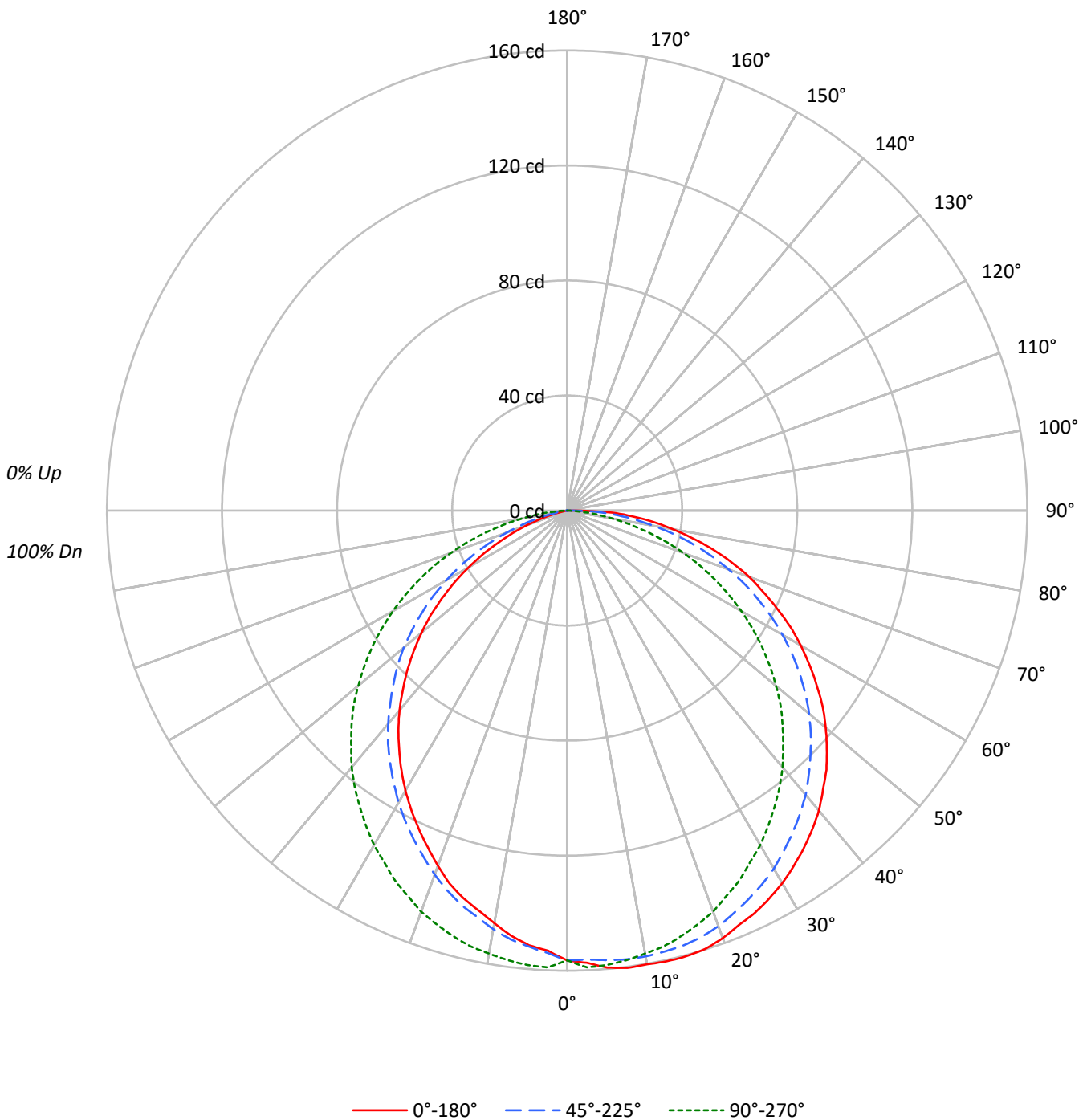
Lumens per Lamp: N/A
Luminaire Lumens: 445.6 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.5' x L: 0.1' x H: 0')
CIE Type: Direct

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	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°	10774	10774	10774
5°	11030	10968	10490
10°	11206	10940	10192
15°	11440	10926	9949
20°	11598	10879	9633
25°	11736	10778	9281
30°	11900	10683	8941
35°	12060	10571	8561
40°	12248	10477	8156
45°	12421	10327	7657
50°	12582	10160	7084
55°	12731	9945	6366
60°	12924	9644	5470
65°	13122	9226	4336
70°	13576	8661	3021
75°	14000	7745	1357
80°	14758	6228	0
85°	17784	4031	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.8	3.3
10°-20°	42.5	9.5
20°-30°	64.1	14.4
30°-40°	77.3	17.3
40°-50°	80.2	18.0
50°-60°	72.4	16.2
60°-70°	54.5	12.2
70°-80°	30.5	6.8
80°-90°	9.3	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°	121.4	27.2
0°-40°	198.7	44.6
0°-60°	351.3	78.8
0°-90°	445.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	445.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	156	156	156	156	156	
5°	160	157	159	152	152	15
15°	160	156	153	142	140	45
25°	154	149	142	126	122	71
35°	143	137	126	107	102	90
45°	128	120	106	86	79	98
55°	106	99	83	62	53	95
65°	80	74	57	35	27	80
75°	53	46	29	11	5	55
85°	22	17	5	0	0	24
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°	156.4	156.4	156.4	156.4	156.4	156.4	156.4	156.4	156.4
2.5°	157.4	157.4	156.2	158.9	159.0	156.5	154.0	151.9	153.2
5°	159.5	159.1	156.9	158.9	158.6	155.4	152.2	150.5	151.7
7.5°	160.4	160.2	157.4	158.8	157.7	153.9	150.4	148.1	149.1
10°	160.2	160.3	157.4	158.3	156.4	152.0	147.8	144.9	145.7
12.5°	160.5	160.4	157.0	157.6	155.2	149.8	144.7	142.1	142.4
15°	160.4	160.4	156.5	156.5	153.2	147.3	142.0	139.3	139.5
17.5°	159.8	159.8	155.4	154.6	150.9	144.5	138.5	135.7	136.0
20°	158.2	158.4	153.8	152.6	148.4	141.1	134.7	131.4	131.4
22.5°	156.0	156.5	151.5	149.9	144.9	137.4	130.4	126.8	126.7
25°	154.4	154.4	149.1	146.9	141.8	133.4	126.2	122.2	122.1
27.5°	152.1	152.2	146.6	144.0	137.8	129.5	121.8	118.1	117.4
30°	149.6	149.7	143.8	140.8	134.3	125.3	117.2	113.3	112.4
32.5°	146.6	146.7	140.3	137.0	130.1	120.7	112.2	108.4	107.2
35°	143.4	143.4	136.7	133.1	125.7	116.0	107.3	103.3	101.8
37.5°	139.9	139.8	133.0	128.9	121.3	111.2	102.3	97.9	96.4
40°	136.2	136.1	129.0	124.5	116.5	106.0	96.8	92.5	90.7
42.5°	131.7	131.6	124.4	119.6	111.2	100.6	91.1	86.6	84.6
45°	127.5	127.1	119.7	114.7	106.0	95.2	85.5	80.7	78.6
47.5°	122.5	122.5	114.9	109.8	100.8	89.9	80.0	74.7	72.4
50°	117.4	117.4	109.8	104.2	94.8	84.1	74.2	68.6	66.1
52.5°	112.0	111.9	104.4	98.5	88.9	78.1	67.7	62.2	59.8
55°	106.0	106.1	98.6	92.4	82.8	71.6	61.5	55.6	53.0
57.5°	99.9	100.0	92.7	86.1	76.4	65.8	55.1	48.6	46.3
60°	93.8	93.6	86.5	79.8	70.0	58.8	48.5	42.1	39.7
62.5°	87.5	87.2	80.1	73.4	63.4	52.6	42.0	35.7	33.3
65°	80.5	80.3	73.5	66.6	56.6	45.8	35.2	29.0	26.6
67.5°	73.7	73.4	66.8	59.8	49.9	39.0	28.7	22.7	20.4
70°	67.4	66.2	59.8	52.9	43.0	32.2	22.4	16.6	15.0
72.5°	60.0	58.8	52.7	45.7	36.0	25.4	16.2	11.0	9.6
75°	52.6	51.5	45.5	38.5	29.1	19.0	10.7	6.3	5.1
77.5°	44.9	43.7	38.1	31.3	22.4	12.9	5.8	2.6	1.6
80°	37.2	36.3	30.5	24.1	15.7	7.3	2.0	0.1	0.0
82.5°	30.1	29.0	23.6	17.6	10.4	3.2	0.2	0.2	0.1
85°	22.5	21.4	16.6	11.0	5.1	0.4	0.0	0.0	0.0
87.5°	15.7	14.6	10.4	5.8	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)