

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: P166445

Luminaire Tested: **HU1009D927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P166445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25786)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HU1009D927MB
Description: HALO HU10 LED UNDERCABINET FIXTURE
9 INCH LENGTH WITH MATTE BLACK FINISH
Light Source: (12) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

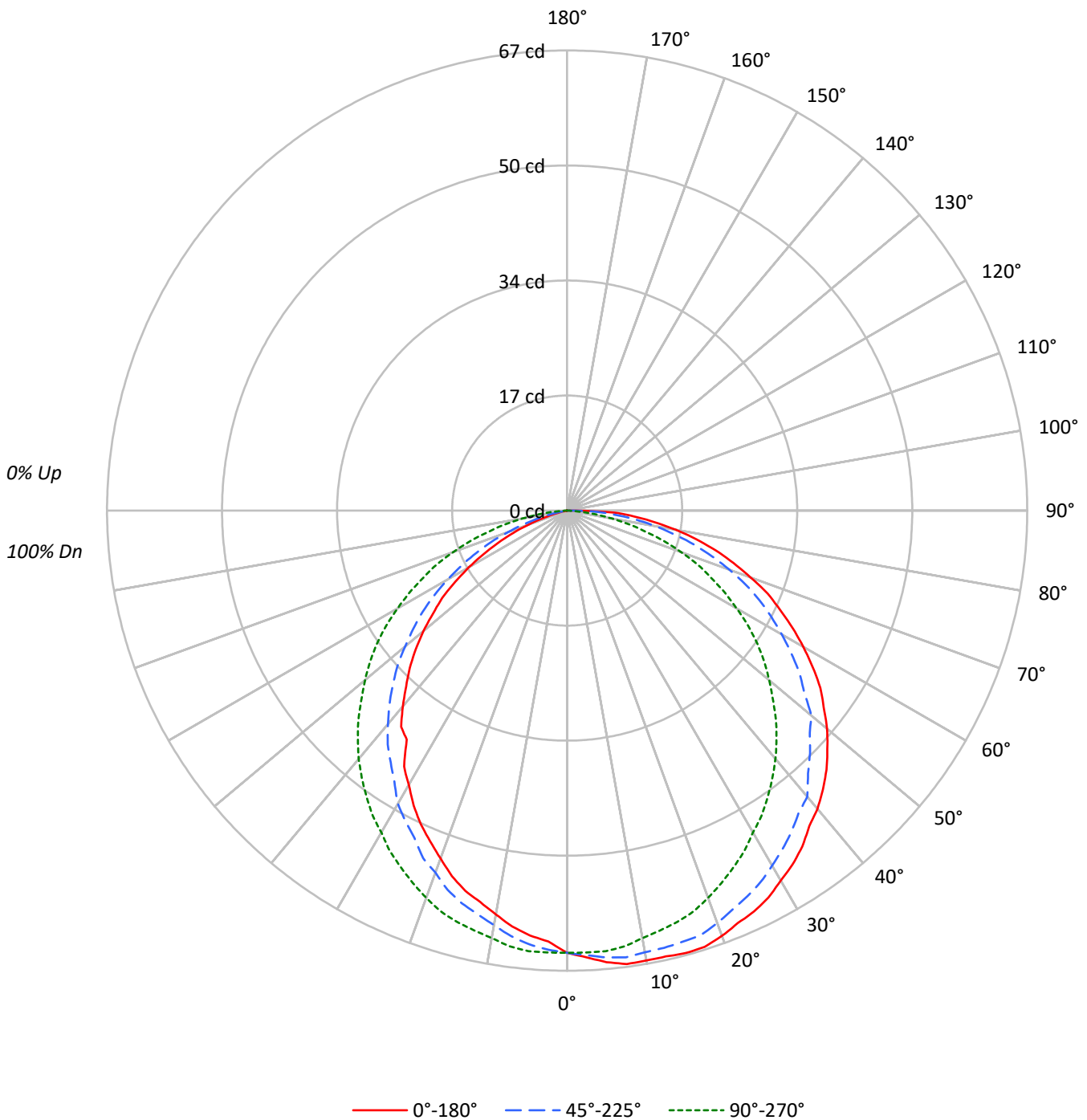
Lumens per Lamp: N/A
Luminaire Lumens: 183.8 lumens
Efficiency: N/A
Efficacy: 49.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.75' x L: 0.1' x H: 0')
CIE Type: Direct

Input Watts (W): 3.7
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



TEST NUMBER: P166445
CATALOG NUMBER: HU1009D927MB

Luminous Intensity Polar Plot





TEST NUMBER: P166445

CATALOG NUMBER: HU1009D927MB

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	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	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	55	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	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8873	8873	8873
5°	9128	8907	8589
10°	9304	8842	8352
15°	9514	8844	8173
20°	9662	8797	7903
25°	9790	8711	7662
30°	9896	8607	7334
35°	10041	8561	6846
40°	10198	8489	6691
45°	10405	8378	6313
50°	10589	8231	5852
55°	10809	8119	5333
60°	10940	7853	4547
65°	11150	7531	3586
70°	11441	7090	2417
75°	11924	6282	1011
80°	12695	5157	0
85°	15492	3162	0



TEST NUMBER: P166445
 CATALOG NUMBER: HU1009D927MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	3.3
10°-20°	17.5	9.5
20°-30°	26.4	14.4
30°-40°	31.8	17.3
40°-50°	33.1	18.0
50°-60°	29.9	16.3
60°-70°	22.5	12.3
70°-80°	12.6	6.9
80°-90°	3.9	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°	49.9	27.2
0°-40°	81.7	44.5
0°-60°	144.7	78.7
0°-90°	183.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	183.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	66	65	64	63	62	6
15°	67	65	62	59	57	19
25°	64	62	57	53	50	30
35°	60	57	51	45	41	37
45°	53	50	43	36	32	41
55°	45	41	34	26	22	40
65°	34	31	23	15	11	34
75°	22	19	12	4	2	24
85°	10	7	2	0	0	10
90°	0	0	0	0	0	



TEST NUMBER: P166445

CATALOG NUMBER: HU1009D927MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
2.5°	65.1	64.8	64.8	64.5	64.4	63.9	64.0	62.7	62.8
5°	66.0	65.6	65.3	64.8	64.4	63.5	63.4	62.1	62.1
7.5°	66.6	66.1	65.6	64.8	64.0	63.0	62.5	61.1	61.1
10°	66.5	66.6	65.3	64.3	63.2	61.2	61.3	59.6	59.7
12.5°	66.5	66.0	65.2	64.0	62.6	61.1	60.2	58.4	58.4
15°	66.7	66.2	65.0	63.6	62.0	60.3	59.2	57.2	57.3
17.5°	66.6	66.0	64.8	63.0	61.2	59.1	57.9	55.8	55.8
20°	65.9	65.3	63.9	62.0	60.0	57.6	56.1	53.9	53.9
22.5°	65.0	64.5	62.9	60.8	58.7	56.1	54.8	52.2	52.1
25°	64.4	63.8	62.0	59.8	57.3	54.5	52.6	50.4	50.4
27.5°	63.5	62.9	61.0	58.6	55.9	53.0	51.0	48.5	48.4
30°	62.2	61.6	59.7	57.0	54.1	51.1	49.3	46.3	46.1
32.5°	61.1	60.4	58.4	55.6	52.7	49.4	46.8	44.4	44.2
35°	59.7	59.5	57.0	54.0	50.9	47.4	44.8	42.3	40.7
37.5°	57.9	57.7	55.4	52.4	49.1	45.5	42.9	40.1	39.7
40°	56.7	56.1	54.4	50.5	47.2	43.4	40.6	37.8	37.2
42.5°	55.1	54.8	51.9	48.6	45.1	41.3	38.3	35.5	34.7
45°	53.4	52.5	50.0	46.5	43.0	39.0	35.9	32.9	32.4
47.5°	51.4	50.6	47.9	44.5	40.6	36.8	33.5	30.7	29.9
50°	49.4	48.3	46.4	42.4	38.4	34.4	30.8	27.9	27.3
52.5°	47.1	46.2	43.5	40.0	36.2	31.9	28.2	25.3	24.6
55°	45.0	44.0	41.3	37.7	33.8	29.5	25.7	22.6	22.2
57.5°	42.4	41.4	38.7	35.2	31.3	26.9	22.9	20.0	19.3
60°	39.7	39.0	36.1	32.9	28.5	24.0	20.1	17.1	16.5
62.5°	37.0	36.0	33.5	29.7	25.9	21.3	17.3	14.4	13.7
65°	34.2	33.4	30.9	27.2	23.1	18.9	14.6	11.8	11.0
67.5°	31.6	30.6	28.1	24.4	20.6	16.1	12.0	9.4	8.5
70°	28.4	27.7	25.1	21.5	17.6	13.1	9.1	6.7	6.0
72.5°	25.4	24.6	22.1	18.6	14.8	10.5	6.6	4.6	3.7
75°	22.4	21.5	19.1	15.7	11.8	7.7	4.2	2.4	1.9
77.5°	19.2	18.4	16.0	12.8	9.3	5.2	2.3	1.0	0.6
80°	16.0	15.2	13.0	9.9	6.5	3.0	0.8	0.1	0.0
82.5°	12.8	12.2	10.1	7.4	4.1	1.3	0.1	0.1	0.1
85°	9.8	9.1	7.1	4.5	2.0	0.2	0.0	0.1	0.0
87.5°	6.9	6.3	4.4	2.5	0.5	0.0	0.1	0.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)