

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: P166454

Luminaire Tested: **HU1036D927MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P166454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25789)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: HU1036D927MB  
Description: HALO HU10 LED UNDERCABINET FIXTURE  
36 INCH LENGTH WITH MATTE BLACK FINISH  
Light Source: (48) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

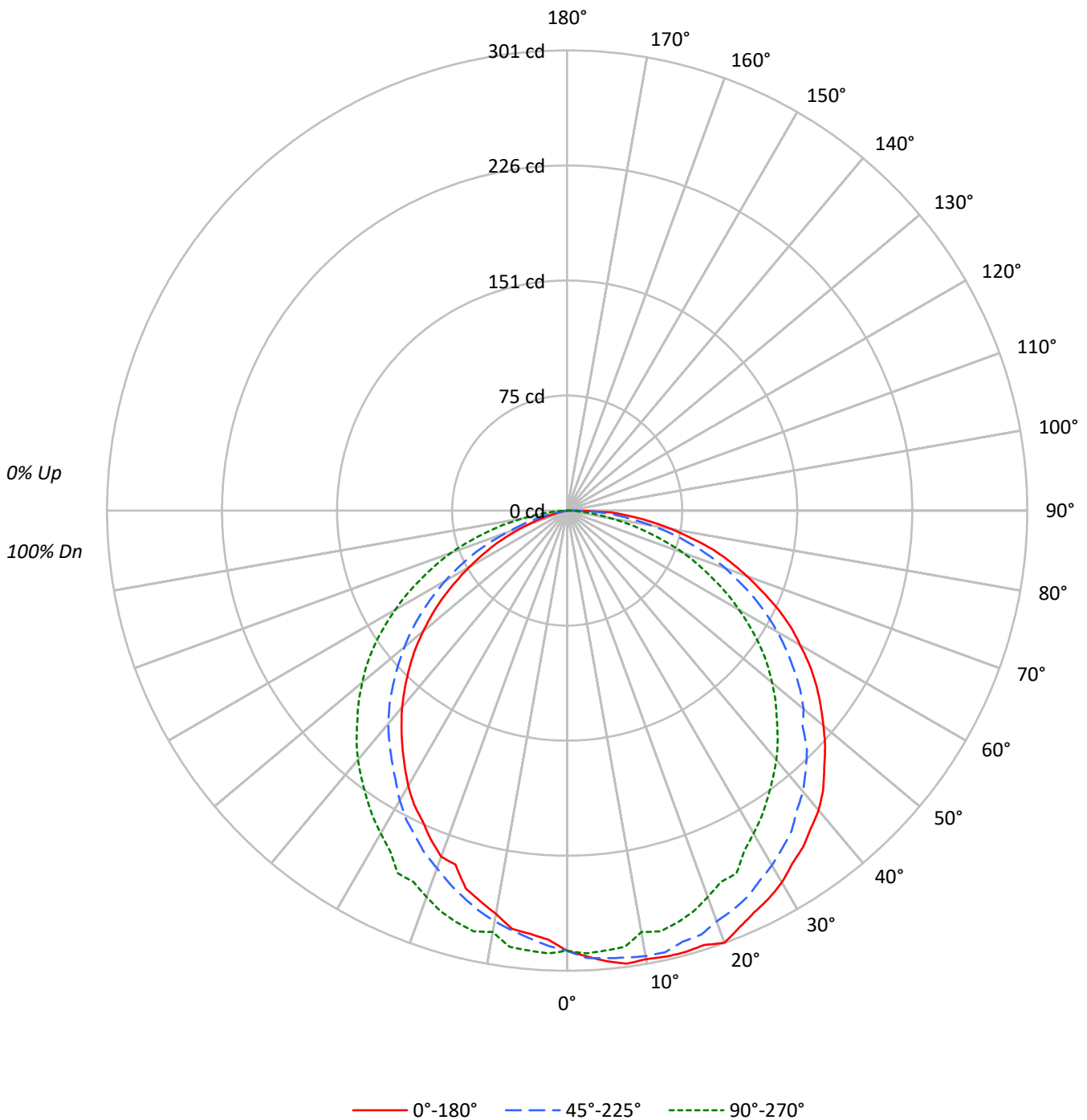
Lumens per Lamp: N/A  
Luminaire Lumens: 822.3 lumens  
Efficiency: N/A  
Efficacy: 58.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 3' x L: 0.1' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
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	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	41	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°	9917	9917	9917
5°	10231	9989	9609
10°	10419	9790	9370
15°	10659	9945	9125
20°	11029	9857	8830
25°	11018	9954	8509
30°	11172	9701	8269
35°	11307	9625	7905
40°	11506	9573	7554
45°	11589	9450	7112
50°	11730	9378	6591
55°	11944	9248	5945
60°	12124	8956	5098
65°	12388	8558	4157
70°	12589	8157	2820
75°	13175	7186	1331
80°	13687	5752	0
85°	16203	3952	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.3	3.3
10°-20°	78.1	9.5
20°-30°	118.3	14.4
30°-40°	142.5	17.3
40°-50°	148.0	18.0
50°-60°	133.8	16.3
60°-70°	101.0	12.3
70°-80°	56.4	6.9
80°-90°	16.9	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°	223.7	27.2
0°-40°	366.1	44.5
0°-60°	648.0	78.8
0°-90°	822.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	288	288	288	288	288	
5°	296	294	289	281	278	28
15°	299	292	279	262	256	85
25°	290	279	262	235	224	134
35°	269	256	229	200	188	168
45°	238	222	194	161	146	184
55°	199	181	154	116	99	178
65°	152	135	105	68	51	150
75°	99	83	54	21	10	103
85°	41	31	10	0	0	43
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°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9
2.5°	291.9	288.9	292.9	289.9	289.9	286.9	284.9	281.9	280.9
5°	295.9	290.9	293.9	289.9	288.9	283.9	280.9	277.9	277.9
7.5°	298.9	292.9	294.9	289.9	287.9	281.9	276.9	273.9	275.9
10°	297.9	292.9	295.9	289.9	279.9	277.9	272.9	269.9	267.9
12.5°	298.9	292.9	295.9	286.9	281.9	274.9	267.9	262.9	261.9
15°	298.9	293.9	291.9	284.9	278.9	268.9	261.9	257.9	255.9
17.5°	297.9	291.9	290.9	281.9	274.9	263.9	255.9	250.9	242.9
20°	300.9	288.9	285.9	277.9	268.9	257.9	248.9	242.9	240.9
22.5°	294.9	285.9	282.9	273.9	262.9	251.9	242.9	234.9	232.9
25°	289.9	281.9	278.9	267.9	261.9	244.9	234.9	226.9	223.9
27.5°	285.9	278.9	272.9	263.9	250.9	237.9	227.9	218.9	216.9
30°	280.9	273.9	267.9	256.9	243.9	229.9	218.9	209.9	207.9
32.5°	273.9	267.9	261.9	250.9	236.9	221.9	208.9	200.9	197.9
35°	268.9	260.9	255.9	242.9	228.9	213.9	199.9	191.0	188.0
37.5°	261.9	254.9	246.9	235.9	220.9	203.9	191.0	181.0	178.0
40°	255.9	246.9	239.9	226.9	212.9	196.0	182.0	171.0	168.0
42.5°	247.9	239.9	230.9	218.9	203.9	186.0	172.0	161.0	157.0
45°	237.9	230.9	221.9	209.9	194.0	176.0	161.0	150.0	146.0
47.5°	228.9	222.9	208.9	198.9	185.0	166.0	150.0	138.0	135.0
50°	218.9	215.9	201.9	190.0	175.0	155.0	139.0	127.0	123.0
52.5°	208.9	202.9	192.0	180.0	165.0	145.0	128.0	116.0	111.0
55°	198.9	192.0	181.0	170.0	154.0	133.0	116.0	105.0	99.0
57.5°	188.0	182.0	170.0	158.0	142.0	122.0	104.0	91.0	86.0
60°	176.0	170.0	159.0	146.0	130.0	110.0	92.0	79.0	74.0
62.5°	165.0	158.0	147.0	135.0	118.0	97.0	80.0	67.0	62.0
65°	152.0	146.0	135.0	122.0	105.0	85.0	68.0	55.0	51.0
67.5°	138.0	133.0	122.0	110.0	93.0	73.0	55.0	43.0	39.0
70°	125.0	121.0	110.0	97.0	81.0	61.0	42.0	32.0	28.0
72.5°	112.0	107.0	97.0	84.0	67.0	48.0	31.0	22.0	19.0
75°	99.0	93.0	83.0	71.0	54.0	36.0	21.0	12.0	10.0
77.5°	83.0	79.0	70.0	58.0	42.0	24.0	12.0	5.0	3.0
80°	69.0	65.0	56.0	44.0	29.0	14.0	4.0	1.0	0.0
82.5°	55.0	52.0	42.0	32.0	19.0	6.0	0.0	0.0	0.0
85°	41.0	38.0	31.0	20.0	10.0	1.0	0.0	0.0	0.0
87.5°	29.0	26.0	19.0	11.0	3.0	0.0	0.0	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)