

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: P166455

Luminaire Tested: **HU1036D930MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P166455
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: HU1036D930MB
Description: HALO HU10 LED UNDERCABINET FIXTURE
36 INCH LENGTH WITH MATTE BLACK FINISH
Light Source: (48) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

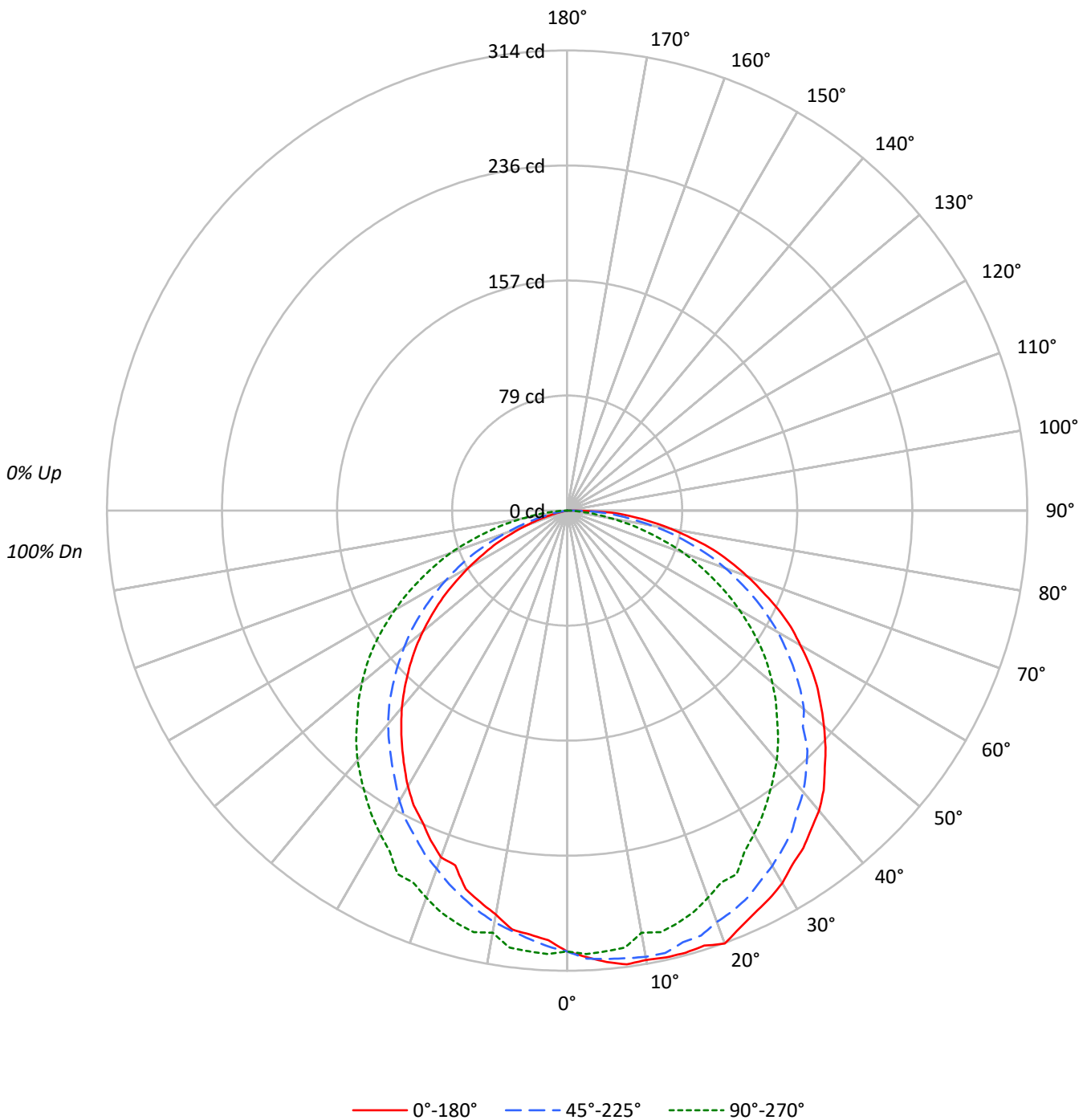
Lumens per Lamp: N/A
Luminaire Lumens: 859.1 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 3' x L: 0.1' x H: 0')
CIE Type: Direct

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°	10361	10361	10361
5°	10691	10438	10041
10°	10888	10230	9790
15°	11136	10391	9535
20°	11524	10300	9226
25°	11512	10402	8893
30°	11673	10138	8643
35°	11816	10058	8258
40°	12023	10004	7891
45°	12110	9869	7429
50°	12255	9796	6886
55°	12485	9662	6209
60°	12662	9355	5325
65°	12943	8941	4344
70°	13153	8520	2941
75°	13761	7506	1384
80°	14302	6010	0
85°	16915	4110	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	3.3
10°-20°	81.6	9.5
20°-30°	123.6	14.4
30°-40°	148.9	17.3
40°-50°	154.6	18.0
50°-60°	139.8	16.3
60°-70°	105.5	12.3
70°-80°	59.0	6.9
80°-90°	17.6	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°	233.7	27.2
0°-40°	382.6	44.5
0°-60°	677.0	78.8
0°-90°	859.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	859.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	301	301	301	301	301	
5°	309	307	302	294	290	30
15°	312	305	291	274	267	89
25°	303	291	274	246	234	140
35°	281	267	239	209	196	176
45°	249	232	203	168	152	192
55°	208	189	161	121	103	186
65°	159	141	110	71	53	157
75°	103	87	56	22	10	108
85°	43	32	10	0	0	45
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°	300.8	300.8	300.8	300.8	300.8	300.8	300.8	300.8	300.8
2.5°	305.0	301.9	306.0	302.9	302.9	299.8	297.7	294.6	293.5
5°	309.2	304.0	307.1	302.9	301.9	296.6	293.5	290.4	290.4
7.5°	312.3	306.0	308.1	302.9	300.8	294.6	289.3	286.2	288.3
10°	311.3	306.0	309.2	302.9	292.5	290.4	285.2	282.0	279.9
12.5°	312.3	306.0	309.2	299.8	294.6	287.2	279.9	274.7	273.7
15°	312.3	307.1	305.0	297.7	291.4	281.0	273.7	269.5	267.4
17.5°	311.3	305.0	304.0	294.6	287.2	275.8	267.4	262.2	253.8
20°	314.4	301.9	298.7	290.4	281.0	269.5	260.1	253.8	251.7
22.5°	308.1	298.7	295.6	286.2	274.7	263.2	253.8	245.5	243.4
25°	302.9	294.6	291.4	279.9	273.7	255.9	245.5	237.1	234.0
27.5°	298.7	291.4	285.2	275.8	262.2	248.6	238.2	228.7	226.7
30°	293.5	286.2	279.9	268.4	254.9	240.2	228.7	219.3	217.3
32.5°	286.2	279.9	273.7	262.2	247.6	231.9	218.3	209.9	206.8
35°	281.0	272.6	267.4	253.8	239.2	223.5	208.9	199.5	196.4
37.5°	273.7	266.4	258.0	246.5	230.8	213.1	199.5	189.1	185.9
40°	267.4	258.0	250.7	237.1	222.5	204.7	190.1	178.6	175.5
42.5°	259.0	250.7	241.3	228.7	213.1	194.3	179.7	168.2	164.0
45°	248.6	241.3	231.9	219.3	202.6	183.8	168.2	156.7	152.5
47.5°	239.2	232.9	218.3	207.9	193.2	173.4	156.7	144.1	141.0
50°	228.7	225.6	211.0	198.5	182.8	161.9	145.2	132.7	128.5
52.5°	218.3	212.0	200.5	188.0	172.3	151.5	133.7	121.2	115.9
55°	207.9	200.5	189.1	177.6	160.9	138.9	121.2	109.7	103.4
57.5°	196.4	190.1	177.6	165.0	148.3	127.4	108.6	95.1	89.8
60°	183.8	177.6	166.1	152.5	135.8	114.9	96.1	82.5	77.3
62.5°	172.3	165.0	153.5	141.0	123.3	101.3	83.6	70.0	64.8
65°	158.8	152.5	141.0	127.4	109.7	88.8	71.0	57.4	53.3
67.5°	144.1	138.9	127.4	114.9	97.1	76.2	57.4	44.9	40.7
70°	130.6	126.4	114.9	101.3	84.6	63.7	43.9	33.4	29.2
72.5°	117.0	111.8	101.3	87.7	70.0	50.1	32.4	23.0	19.8
75°	103.4	97.1	86.7	74.2	56.4	37.6	21.9	12.5	10.4
77.5°	86.7	82.5	73.1	60.6	43.9	25.1	12.5	5.2	3.1
80°	72.1	67.9	58.5	46.0	30.3	14.6	4.2	1.0	0.0
82.5°	57.4	54.3	43.9	33.4	19.8	6.3	0.0	0.0	0.0
85°	42.8	39.7	32.4	20.9	10.4	1.0	0.0	0.0	0.0
87.5°	30.3	27.2	19.8	11.5	3.1	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)