

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: P166452

Luminaire Tested: **HU1024D930MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P166452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25788)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HU1024D930MB
Description: HALO HU10 LED UNDERCABINET FIXTURE
24 INCH LENGTH WITH MATTE BLACK FINISH
Light Source: (36) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

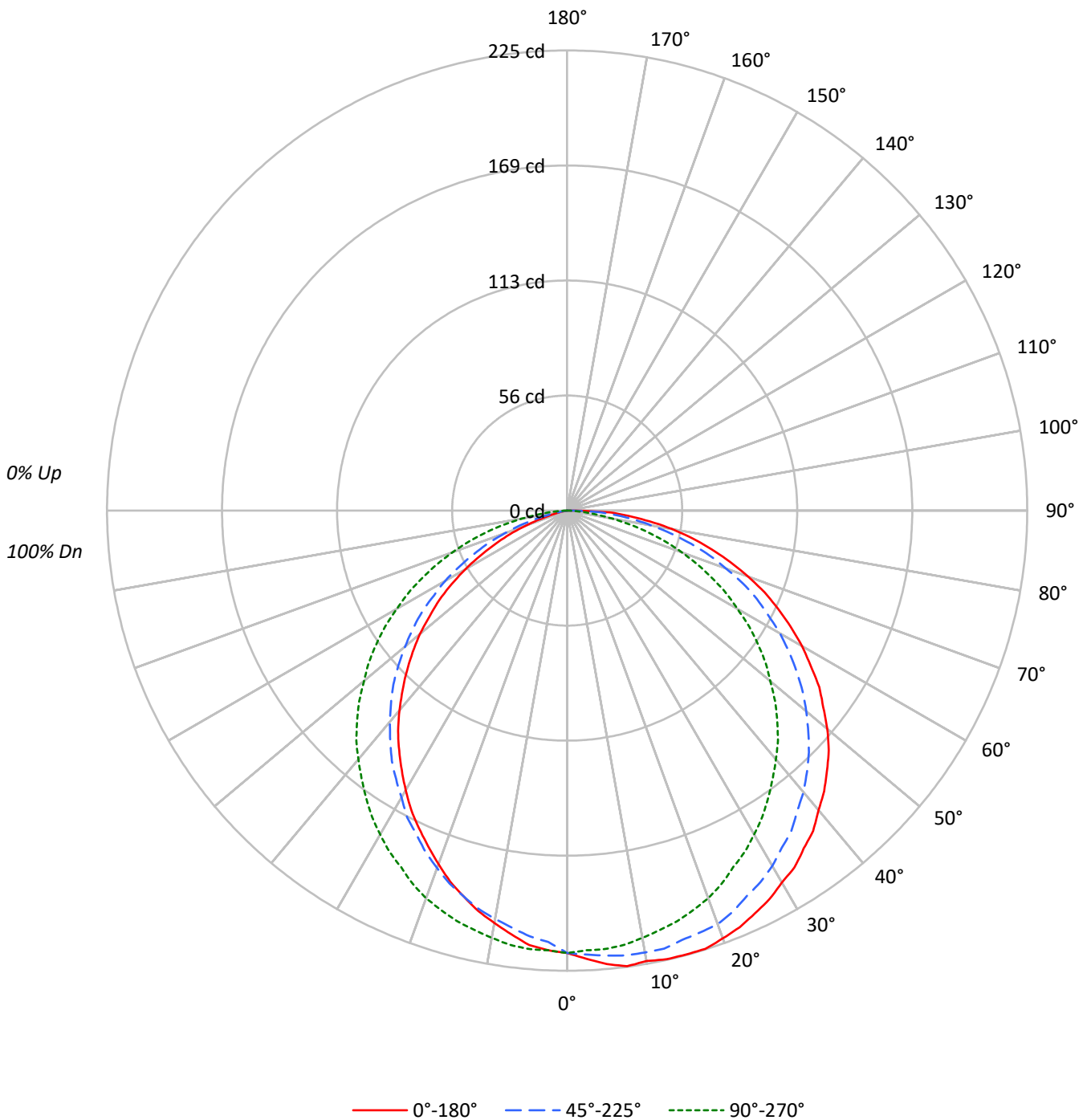
Lumens per Lamp: N/A
Luminaire Lumens: 615.4 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 0.1' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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	100	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	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	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11175	11175	11175
5°	11545	11161	11057
10°	11731	11128	10745
15°	12019	11120	10452
20°	12239	11090	10111
25°	12388	10963	9771
30°	12528	10912	9414
35°	12722	10811	9032
40°	12896	10710	8599
45°	13130	10609	8096
50°	13351	10417	7556
55°	13557	10260	6873
60°	13712	9930	5942
65°	13925	9585	4731
70°	14200	9003	3308
75°	14593	8145	1457
80°	15531	6516	0
85°	17962	4327	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	3.3
10°-20°	58.6	9.5
20°-30°	88.5	14.4
30°-40°	106.6	17.3
40°-50°	110.9	18.0
50°-60°	100.1	16.3
60°-70°	75.6	12.3
70°-80°	42.1	6.8
80°-90°	12.5	2.0
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°	167.5	27.2
0°-40°	274.2	44.6
0°-60°	485.2	78.8
0°-90°	615.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	615.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	216	216	216	216	216	
5°	223	218	215	209	213	21
15°	225	217	208	195	195	64
25°	217	208	192	174	171	100
35°	202	191	171	149	143	126
45°	180	167	145	120	111	139
55°	150	137	114	87	76	134
65°	114	102	78	50	39	113
75°	73	63	41	16	7	77
85°	30	23	7	0	0	32
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°	216.3	216.3	216.3	216.3	216.3	216.3	216.3	216.3	216.3
2.5°	219.4	215.2	217.3	216.3	215.2	217.3	211.1	211.1	215.2
5°	222.6	217.3	218.4	217.3	215.2	216.3	209.0	210.0	213.2
7.5°	224.7	218.4	219.4	216.3	214.2	214.2	205.8	205.8	209.0
10°	223.6	218.4	219.4	215.2	212.1	211.1	202.7	201.7	204.8
12.5°	224.7	218.4	219.4	214.2	210.0	209.0	199.6	197.5	200.6
15°	224.7	218.4	217.3	212.1	207.9	204.8	195.4	193.3	195.4
17.5°	224.7	217.3	216.3	210.0	204.8	200.6	191.2	188.1	190.2
20°	222.6	216.3	215.2	207.9	201.7	196.4	186.0	182.9	183.9
22.5°	220.5	213.2	212.1	204.8	197.5	191.2	180.8	176.6	177.6
25°	217.3	210.0	207.9	199.6	192.3	184.9	174.5	170.3	171.4
27.5°	214.2	206.9	204.8	195.4	188.1	179.7	169.3	164.0	165.1
30°	210.0	203.8	200.6	190.2	182.9	173.5	162.0	157.8	157.8
32.5°	206.9	199.6	195.4	186.0	177.6	167.2	155.7	150.5	150.5
35°	201.7	194.4	191.2	180.8	171.4	160.9	149.4	144.2	143.2
37.5°	197.5	190.2	184.9	174.5	165.1	154.6	142.1	135.8	135.8
40°	191.2	184.9	179.7	168.2	158.8	147.3	134.8	128.5	127.5
42.5°	186.0	178.7	173.5	162.0	152.6	140.0	127.5	120.2	119.1
45°	179.7	172.4	167.2	155.7	145.2	132.7	120.2	112.8	110.8
47.5°	173.5	166.1	159.9	148.4	137.9	124.3	111.8	104.5	102.4
50°	166.1	158.8	152.6	140.0	129.6	117.0	103.4	96.1	94.0
52.5°	157.8	151.5	145.2	132.7	122.3	108.7	95.1	86.7	84.6
55°	150.5	143.2	136.9	124.3	113.9	100.3	86.7	78.4	76.3
57.5°	141.1	135.8	128.5	116.0	105.5	92.0	77.3	69.0	66.9
60°	132.7	127.5	120.2	107.6	96.1	82.5	69.0	60.6	57.5
62.5°	123.3	118.1	110.8	98.2	87.8	73.1	59.6	51.2	48.1
65°	113.9	108.7	102.4	88.8	78.4	63.7	50.2	41.8	38.7
67.5°	104.5	99.3	93.0	80.5	69.0	55.4	41.8	33.4	30.3
70°	94.0	88.8	82.5	70.0	59.6	44.9	32.4	25.1	21.9
72.5°	83.6	79.4	73.1	61.6	50.2	36.6	24.0	16.7	13.6
75°	73.1	69.0	62.7	51.2	40.8	27.2	15.7	9.4	7.3
77.5°	62.7	58.5	52.2	41.8	31.3	18.8	8.4	4.2	3.1
80°	52.2	48.1	41.8	32.4	21.9	10.4	3.1	0.0	0.0
82.5°	40.8	37.6	32.4	24.0	13.6	5.2	0.0	0.0	0.0
85°	30.3	28.2	23.0	15.7	7.3	1.0	0.0	0.0	0.0
87.5°	20.9	18.8	13.6	8.4	2.1	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)