

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: P166453

Luminaire Tested: **HU1024D940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P166453
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: HU1024D940MB
Description: HALO HU10 LED UNDERCABINET FIXTURE
24 INCH LENGTH WITH MATTE BLACK FINISH
Light Source: (36) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

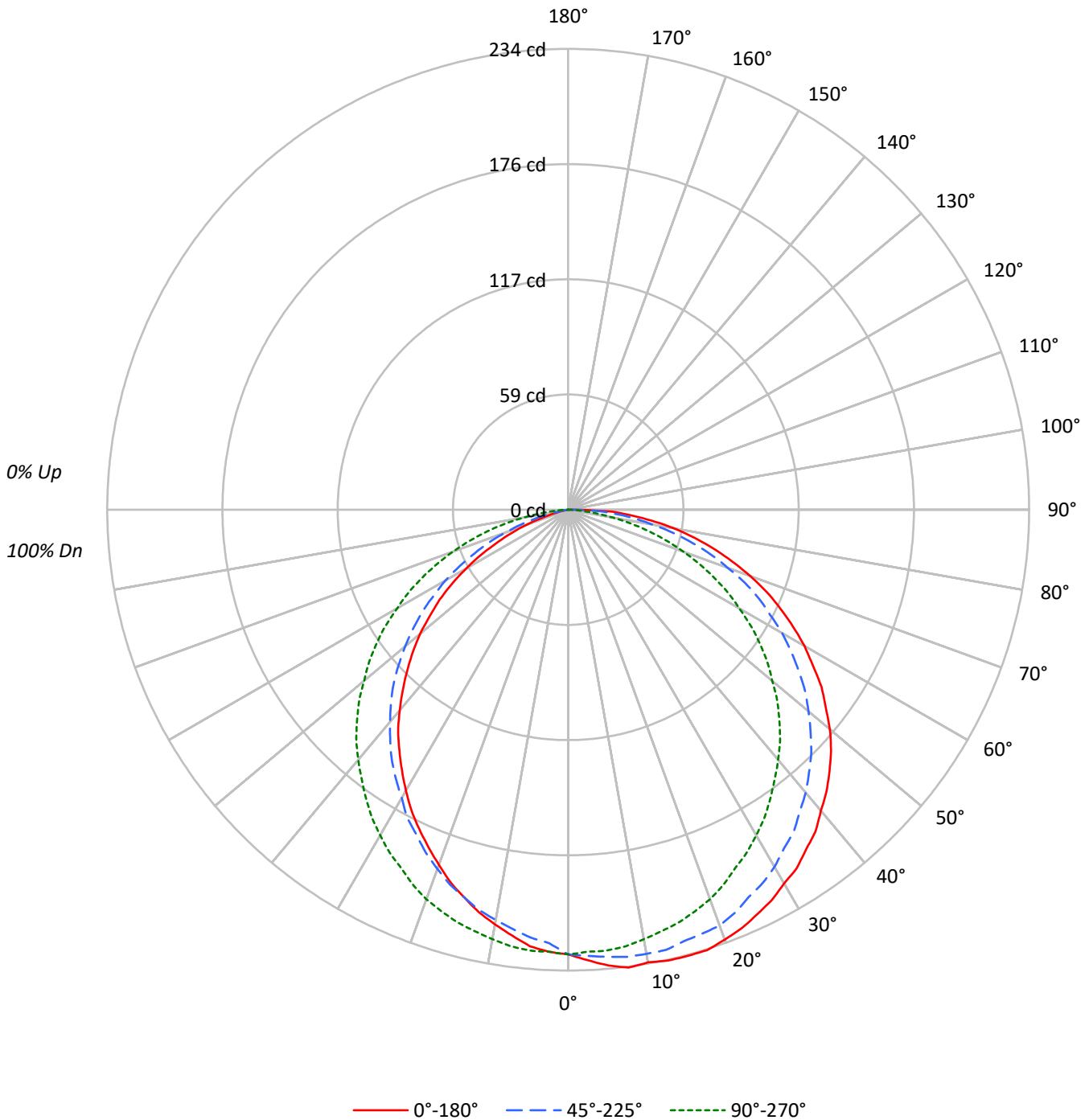
Lumens per Lamp: N/A
Luminaire Lumens: 642.3 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 0.1' x H: 0')
CIE Type: Direct

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°	11666	11666	11666
5°	12048	11654	11540
10°	12245	11615	11217
15°	12543	11607	10906
20°	12772	11574	10551
25°	12929	11441	10199
30°	13077	11389	9826
35°	13277	11284	9423
40°	13462	11183	8977
45°	13707	11077	8447
50°	13938	10867	7893
55°	14142	10710	7170
60°	14312	10364	6200
65°	14536	10000	4939
70°	14834	9396	3459
75°	15231	8484	1517
80°	16216	6814	0
85°	18733	4505	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	3.3
10°-20°	61.1	9.5
20°-30°	92.4	14.4
30°-40°	111.3	17.3
40°-50°	115.7	18.0
50°-60°	104.5	16.3
60°-70°	78.9	12.3
70°-80°	43.9	6.8
80°-90°	13.1	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°	174.8	27.2
0°-40°	286.1	44.6
0°-60°	506.4	78.8
0°-90°	642.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	642.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	226	226	226	226	226	
5°	232	228	225	218	222	22
15°	234	227	217	204	204	66
25°	227	217	201	182	179	105
35°	210	200	179	156	149	132
45°	188	174	152	125	116	145
55°	157	143	119	90	80	140
65°	119	107	82	52	40	118
75°	76	65	42	16	8	81
85°	32	24	8	0	0	34
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°	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8
2.5°	229.0	224.7	226.8	225.8	224.7	226.8	220.3	220.3	224.7
5°	232.3	226.8	227.9	226.8	224.7	225.8	218.1	219.2	222.5
7.5°	234.5	227.9	229.0	225.8	223.6	223.6	214.8	214.8	218.1
10°	233.4	227.9	229.0	224.7	221.4	220.3	211.6	210.5	213.8
12.5°	234.5	227.9	229.0	223.6	219.2	218.1	208.3	206.1	209.4
15°	234.5	227.9	226.8	221.4	217.0	213.8	203.9	201.8	203.9
17.5°	234.5	226.8	225.8	219.2	213.8	209.4	199.6	196.3	198.5
20°	232.3	225.8	224.7	217.0	210.5	205.0	194.1	190.9	191.9
22.5°	230.1	222.5	221.4	213.8	206.1	199.6	188.7	184.3	185.4
25°	226.8	219.2	217.0	208.3	200.7	193.0	182.1	177.8	178.9
27.5°	223.6	215.9	213.8	203.9	196.3	187.6	176.7	171.2	172.3
30°	219.2	212.7	209.4	198.5	190.9	181.0	169.0	164.7	164.7
32.5°	215.9	208.3	203.9	194.1	185.4	174.5	162.5	157.0	157.0
35°	210.5	202.8	199.6	188.7	178.9	167.9	156.0	150.5	149.4
37.5°	206.1	198.5	193.0	182.1	172.3	161.4	148.3	141.8	141.8
40°	199.6	193.0	187.6	175.6	165.8	153.8	140.7	134.1	133.1
42.5°	194.1	186.5	181.0	169.0	159.2	146.1	133.1	125.4	124.3
45°	187.6	179.9	174.5	162.5	151.6	138.5	125.4	117.8	115.6
47.5°	181.0	173.4	166.9	154.9	144.0	129.8	116.7	109.1	106.9
50°	173.4	165.8	159.2	146.1	135.2	122.1	108.0	100.3	98.2
52.5°	164.7	158.1	151.6	138.5	127.6	113.4	99.2	90.5	88.3
55°	157.0	149.4	142.9	129.8	118.9	104.7	90.5	81.8	79.6
57.5°	147.2	141.8	134.1	121.1	110.1	96.0	80.7	72.0	69.8
60°	138.5	133.1	125.4	112.3	100.3	86.2	72.0	63.3	60.0
62.5°	128.7	123.2	115.6	102.5	91.6	76.3	62.2	53.4	50.2
65°	118.9	113.4	106.9	92.7	81.8	66.5	52.3	43.6	40.4
67.5°	109.1	103.6	97.1	84.0	72.0	57.8	43.6	34.9	31.6
70°	98.2	92.7	86.2	73.1	62.2	46.9	33.8	26.2	22.9
72.5°	87.2	82.9	76.3	64.3	52.3	38.2	25.1	17.4	14.2
75°	76.3	72.0	65.4	53.4	42.5	28.4	16.4	9.8	7.6
77.5°	65.4	61.1	54.5	43.6	32.7	19.6	8.7	4.4	3.3
80°	54.5	50.2	43.6	33.8	22.9	10.9	3.3	0.0	0.0
82.5°	42.5	39.3	33.8	25.1	14.2	5.5	0.0	0.0	0.0
85°	31.6	29.4	24.0	16.4	7.6	1.1	0.0	0.0	0.0
87.5°	21.8	19.6	14.2	8.7	2.2	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)