

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: P166457

Luminaire Tested: **HU1048D927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P166457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25790)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HU1048D927MB
Description: HALO HU10 LED UNDERCABINET FIXTURE
48 INCH LENGTH WITH MATTE BLACK FINISH
Light Source: (72) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

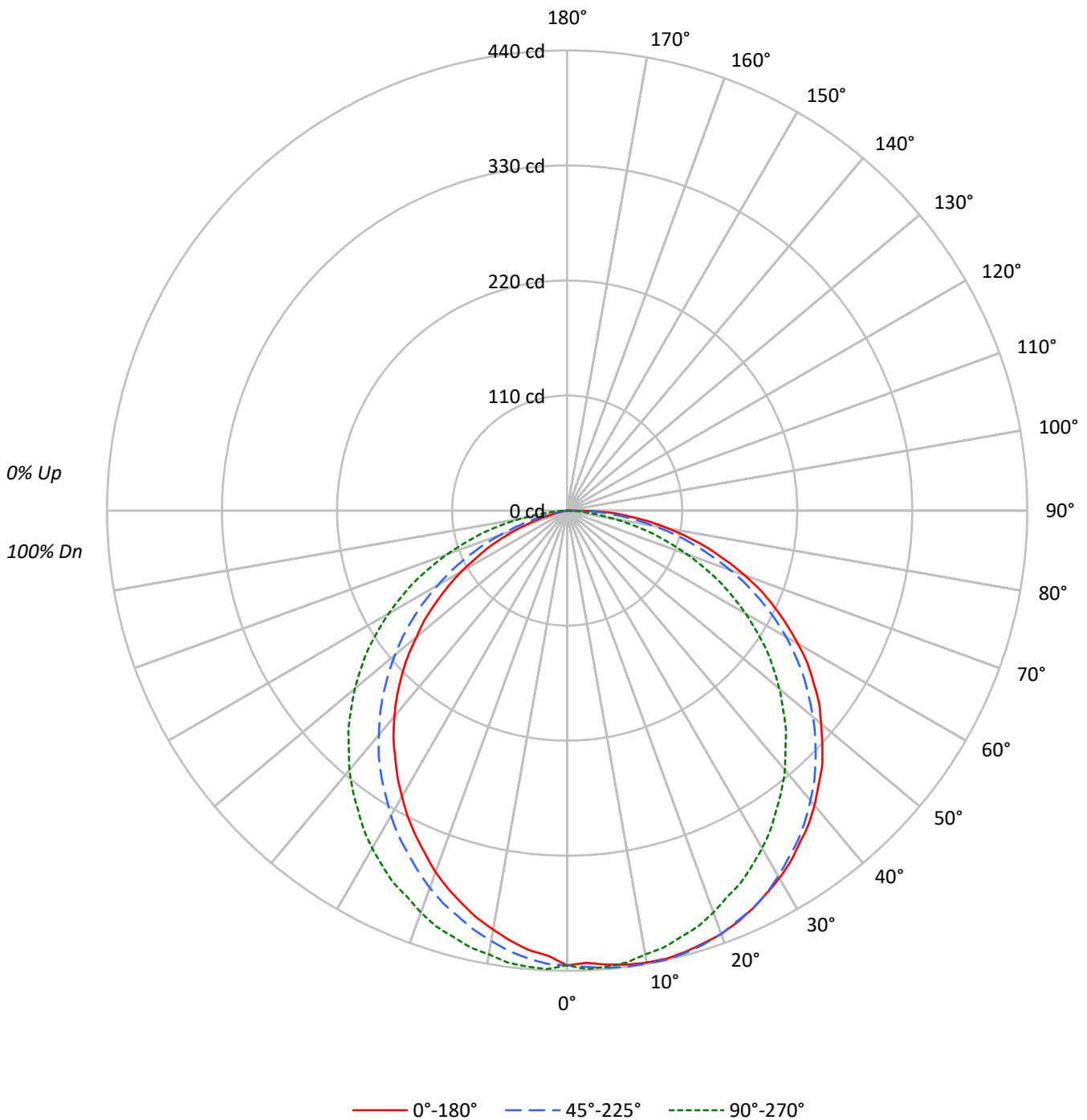
Lumens per Lamp: N/A
Luminaire Lumens: 1245.0 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.1' x H: 0')
CIE Type: Direct

Input Watts (W): 21.5
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



TEST NUMBER: P166457
CATALOG NUMBER: HU1048D927MB

Luminous Intensity Polar Plot





TEST NUMBER: P166457

CATALOG NUMBER: HU1048D927MB

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	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	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11232	11232	11232
5°	11301	11353	10938
10°	11511	11301	10671
15°	11682	11281	10401
20°	11843	11238	10114
25°	11966	11199	9774
30°	12105	11124	9423
35°	12233	11003	9048
40°	12407	10923	8663
45°	12601	10810	8180
50°	12736	10646	7552
55°	12967	10490	6886
60°	13170	10173	6045
65°	13381	9835	5012
70°	13664	9215	3550
75°	13964	8384	1797
80°	14579	6843	149
85°	16895	4446	0



TEST NUMBER: P166457
 CATALOG NUMBER: HU1048D927MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	3.3
10°-20°	118.1	9.5
20°-30°	178.9	14.4
30°-40°	215.8	17.3
40°-50°	224.3	18.0
50°-60°	203.0	16.3
60°-70°	153.6	12.3
70°-80°	85.4	6.9
80°-90°	24.9	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°	338.1	27.2
0°-40°	553.9	44.5
0°-60°	981.2	78.8
0°-90°	1245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1245.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	435	435	435	435	435	
5°	436	439	438	430	422	42
15°	437	438	422	402	389	123
25°	420	420	393	361	343	194
35°	388	385	349	310	287	243
45°	345	336	296	249	224	266
55°	288	276	233	180	153	258
65°	219	205	161	106	82	217
75°	140	125	84	34	18	147
85°	57	45	15	0	0	61
90°	0	0	0	0	0	



TEST NUMBER: P166457

CATALOG NUMBER: HU1048D927MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	434.8	434.8	434.8	434.8	434.8	434.8	434.8	434.8	434.8
2.5°	432.8	436.8	436.8	436.8	438.8	432.8	433.8	426.8	425.8
5°	435.8	440.8	438.8	436.8	437.8	428.8	429.8	420.8	421.8
7.5°	437.8	443.8	439.8	436.8	435.8	424.8	424.8	413.8	414.8
10°	438.8	443.8	439.8	435.8	430.8	420.8	417.8	406.8	406.8
12.5°	438.8	442.8	439.8	432.8	427.8	413.8	410.8	398.8	398.8
15°	436.8	444.8	437.8	428.8	421.8	406.8	401.8	390.9	388.9
17.5°	433.8	442.8	434.8	424.8	416.8	399.8	393.9	381.9	378.9
20°	430.8	438.8	430.8	418.8	408.8	390.9	383.9	369.9	367.9
22.5°	425.8	433.8	424.8	411.8	399.8	380.9	372.9	357.9	354.9
25°	419.8	428.8	419.8	404.8	392.9	370.9	360.9	346.9	342.9
27.5°	412.8	420.8	412.8	395.9	382.9	360.9	349.9	333.9	329.9
30°	405.8	413.8	403.8	386.9	372.9	348.9	336.9	319.9	315.9
32.5°	397.8	405.8	393.9	376.9	361.9	337.9	322.9	306.9	301.9
35°	387.9	394.9	384.9	365.9	348.9	323.9	309.9	291.9	286.9
37.5°	378.9	384.9	373.9	354.9	336.9	311.9	295.9	276.9	272.9
40°	367.9	374.9	361.9	342.9	323.9	296.9	279.9	260.9	256.9
42.5°	355.9	362.9	349.9	328.9	308.9	283.9	264.9	244.9	240.9
45°	344.9	349.9	335.9	315.9	295.9	268.9	248.9	228.9	223.9
47.5°	330.9	335.9	321.9	301.9	279.9	252.9	231.9	211.9	206.9
50°	316.9	321.9	306.9	286.9	264.9	237.9	214.9	194.9	187.9
52.5°	303.9	306.9	290.9	271.9	248.9	220.9	197.9	176.9	171.9
55°	287.9	290.9	275.9	255.9	232.9	204.9	179.9	159.9	152.9
57.5°	272.9	274.9	258.9	238.9	214.9	186.9	161.9	140.9	134.9
60°	254.9	255.9	241.9	220.9	196.9	168.9	142.9	122.0	117.0
62.5°	236.9	237.9	223.9	202.9	178.9	150.9	125.0	105.0	98.0
65°	218.9	218.9	204.9	183.9	160.9	132.0	106.0	87.0	82.0
67.5°	200.9	198.9	185.9	164.9	140.9	113.0	87.0	69.0	64.0
70°	180.9	178.9	165.9	144.9	122.0	94.0	68.0	52.0	47.0
72.5°	159.9	158.9	144.9	125.0	102.0	75.0	50.0	36.0	32.0
75°	139.9	137.9	125.0	105.0	84.0	56.0	34.0	22.0	18.0
77.5°	119.0	117.0	105.0	85.0	64.0	39.0	20.0	10.0	7.0
80°	98.0	96.0	84.0	66.0	46.0	23.0	8.0	2.0	1.0
82.5°	78.0	76.0	64.0	47.0	29.0	11.0	1.0	0.0	0.0
85°	57.0	55.0	45.0	29.0	15.0	2.0	0.0	0.0	0.0
87.5°	39.0	37.0	27.0	15.0	5.0	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)