

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: P166451

Luminaire Tested: **HU1024D927MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P166451  
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: HU1024D927MB  
Description: HALO HU10 LED UNDERCABINET FIXTURE  
24 INCH LENGTH WITH MATTE BLACK FINISH  
Light Source: (36) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

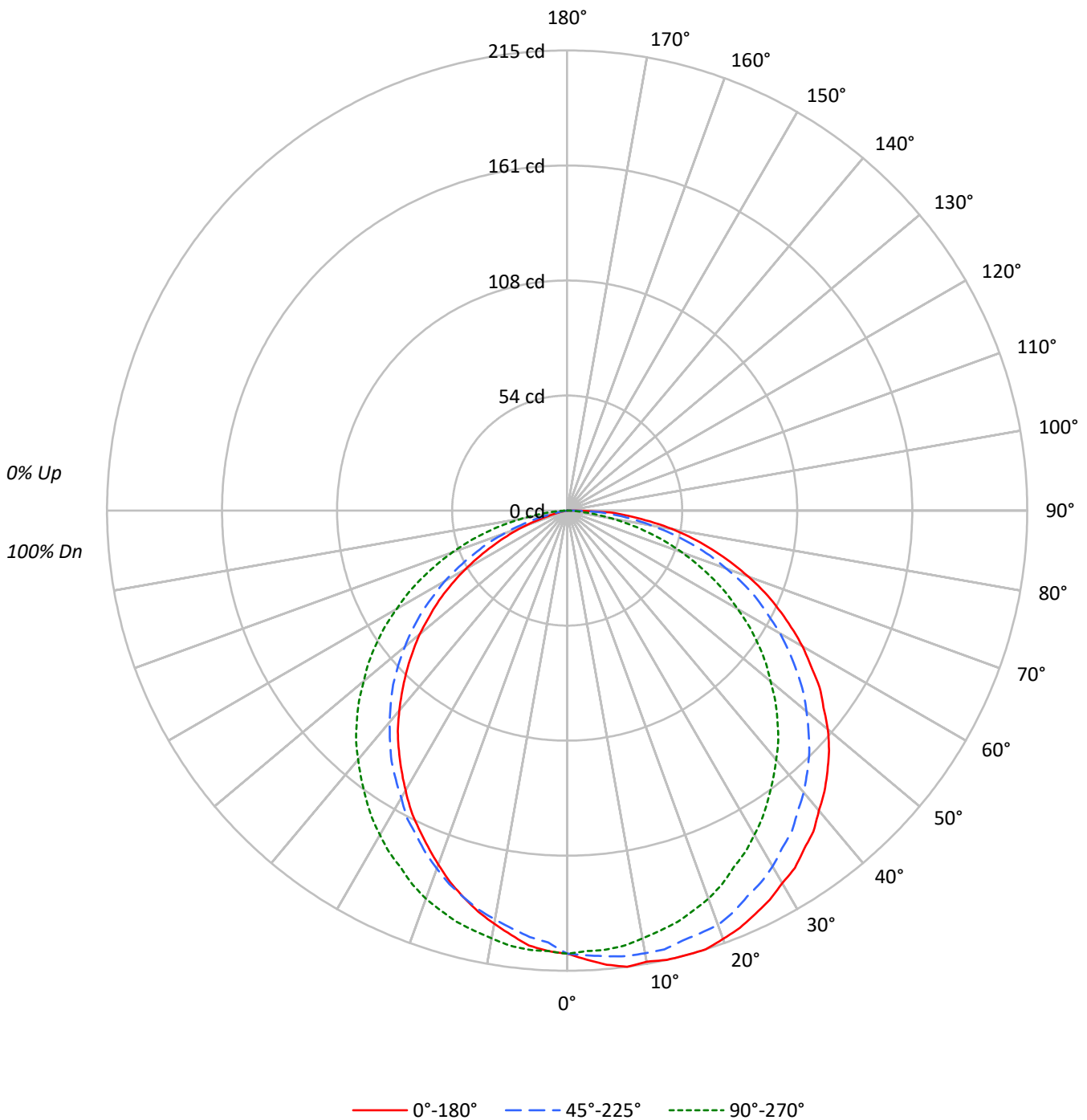
Lumens per Lamp: N/A  
Luminaire Lumens: 588.9 lumens  
Efficiency: N/A  
Efficacy: 56.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 0.1' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P166451  
CATALOG NUMBER: HU1024D927MB

### Luminous Intensity Polar Plot





TEST NUMBER: P166451

CATALOG NUMBER: HU1024D927MB

**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°	10695	10695	10695
5°	11047	10684	10580
10°	11227	10650	10283
15°	11500	10644	10002
20°	11711	10612	9677
25°	11858	10489	9349
30°	11992	10440	9009
35°	12173	10344	8641
40°	12343	10252	8228
45°	12568	10156	7745
50°	12780	9967	7234
55°	12971	9819	6576
60°	13123	9507	5683
65°	13326	9169	4523
70°	13596	8611	3172
75°	13974	7785	1397
80°	14877	6248	0
85°	17191	4150	0



TEST NUMBER: P166451  
 CATALOG NUMBER: HU1024D927MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.5	3.3
10°-20°	56.0	9.5
20°-30°	84.7	14.4
30°-40°	102.1	17.3
40°-50°	106.1	18.0
50°-60°	95.8	16.3
60°-70°	72.3	12.3
70°-80°	40.3	6.8
80°-90°	12.0	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°	160.3	27.2
0°-40°	262.4	44.6
0°-60°	464.3	78.8
0°-90°	588.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	588.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	207	207	207	207	207	
5°	213	209	206	200	204	20
15°	215	208	199	187	187	61
25°	208	199	184	167	164	96
35°	193	183	164	143	137	121
45°	172	160	139	115	106	133
55°	144	131	109	83	73	128
65°	109	98	75	48	37	108
75°	70	60	39	15	7	74
85°	29	22	7	0	0	31
90°	0	0	0	0	0	



TEST NUMBER: P166451

CATALOG NUMBER: HU1024D927MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	207	207	207	207	207	207	207	207	207
2.5°	210	206	208	207	206	208	202	202	206
5°	213	208	209	208	206	207	200	201	204
7.5°	215	209	210	207	205	205	197	197	200
10°	214	209	210	206	203	202	194	193	196
12.5°	215	209	210	205	201	200	191	189	192
15°	215	209	208	203	199	196	187	185	187
17.5°	215	208	207	201	196	192	183	180	182
20°	213	207	206	199	193	188	178	175	176
22.5°	211	204	203	196	189	183	173	169	170
25°	208	201	199	191	184	177	167	163	164
27.5°	205	198	196	187	180	172	162	157	158
30°	201	195	192	182	175	166	155	151	151
32.5°	198	191	187	178	170	160	149	144	144
35°	193	186	183	173	164	154	143	138	137
37.5°	189	182	177	167	158	148	136	130	130
40°	183	177	172	161	152	141	129	123	122
42.5°	178	171	166	155	146	134	122	115	114
45°	172	165	160	149	139	127	115	108	106
47.5°	166	159	153	142	132	119	107	100	98
50°	159	152	146	134	124	112	99	92	90
52.5°	151	145	139	127	117	104	91	83	81
55°	144	137	131	119	109	96	83	75	73
57.5°	135	130	123	111	101	88	74	66	64
60°	127	122	115	103	92	79	66	58	55
62.5°	118	113	106	94	84	70	57	49	46
65°	109	104	98	85	75	61	48	40	37
67.5°	100	95	89	77	66	53	40	32	29
70°	90	85	79	67	57	43	31	24	21
72.5°	80	76	70	59	48	35	23	16	13
75°	70	66	60	49	39	26	15	9	7
77.5°	60	56	50	40	30	18	8	4	3
80°	50	46	40	31	21	10	3	0	0
82.5°	39	36	31	23	13	5	0	0	0
85°	29	27	22	15	7	1	0	0	0
87.5°	20	18	13	8	2	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)