

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: HALO

Report Number: P626478

Luminaire Tested: HLBC6LS9FSD2WE010MWR-5000K-900lm

Issue Date: 11/17/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P626478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2209543B001)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/17/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: HLBC6LS9FSD2WE010MWR-5000K-900lm  
Description: 6IN CANLESS LED DOWNLIGHT WITH SELECTABLE CCT AND SELECTABLE LUMEN OUTPUT  
Light Source: (1) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

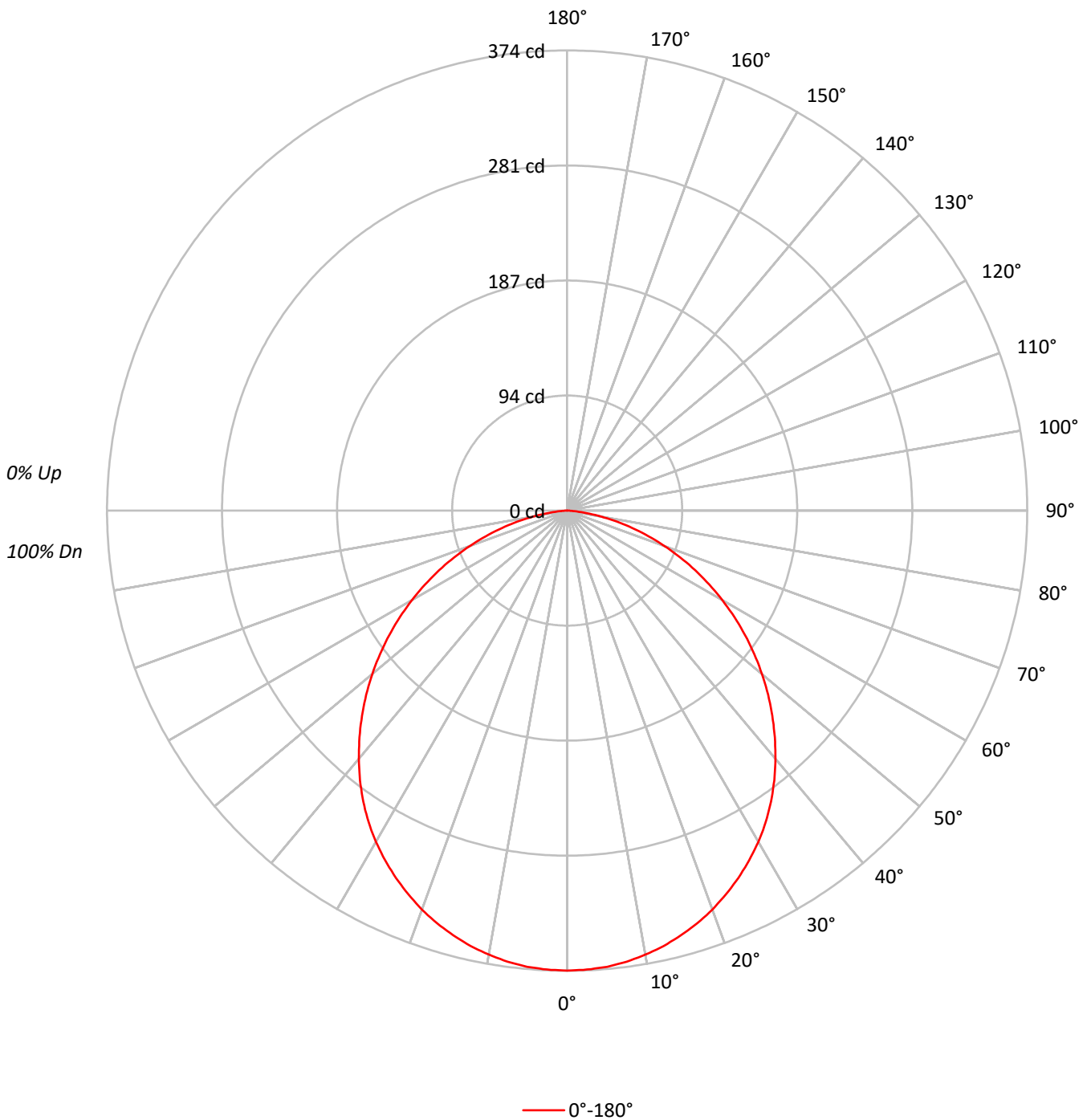
Lumens per Lamp: N/A  
Luminaire Lumens: 990.0 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34  
Luminous Opening: Circular (Dia: 0.5m x H: 0m)  
CIE Type: Direct

Input Watts (W): 11.4  
Input Voltage (V): 120  
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	105	101	97	107	103	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1904
5°	1903
10°	1895
15°	1884
20°	1870
25°	1851
30°	1828
35°	1796
40°	1751
45°	1698
50°	1639
55°	1568
60°	1484
65°	1383
70°	1254
75°	1080
80°	818
85°	321

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1698 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.3	3.6
10°-20°	100.8	10.2
20°-30°	151.7	15.3
30°-40°	180.5	18.2
40°-50°	181.8	18.4
50°-60°	157.8	15.9
60°-70°	113.6	11.5
70°-80°	58.3	5.9
80°-90°	10.1	1.0
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°	287.9	29.1
0°-40°	468.4	47.3
0°-60°	808.0	81.6
0°-90°	990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	374	
5°	372	35
15°	357	101
25°	329	152
35°	289	180
45°	236	182
55°	177	158
65°	115	114
75°	55	58
85°	6	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	373.9
2.5°	373.4
5°	372.2
7.5°	369.8
10°	366.5
12.5°	362.5
15°	357.4
17.5°	351.7
20°	345.1
22.5°	337.5
25°	329.4
27.5°	320.4
30°	310.8
32.5°	300.4
35°	288.9
37.5°	276.5
40°	263.4
42.5°	249.8
45°	235.8
47.5°	221.5
50°	206.8
52.5°	191.7
55°	176.6
57.5°	161.2
60°	145.7
62.5°	130.3
65°	114.8
67.5°	99.3
70°	84.2
72.5°	69.3
75°	54.9
77.5°	41.0
80°	27.9
82.5°	15.9
85°	5.5
87.5°	1.9
90°	0.1

(END OF REPORT)