

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: P626476

Luminaire Tested: HLBC6LS9FSD2WE010MWR-4000K-900lm

Issue Date: 11/17/2022

Test Information

Test Method: LM-79-2019
Report Number: P626476
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-4000K-900lm
Description: 6IN CANLESS LED DOWNLIGHT WITH SELECTABLE CCT AND SELECTABLE LUMEN OUTPUT
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

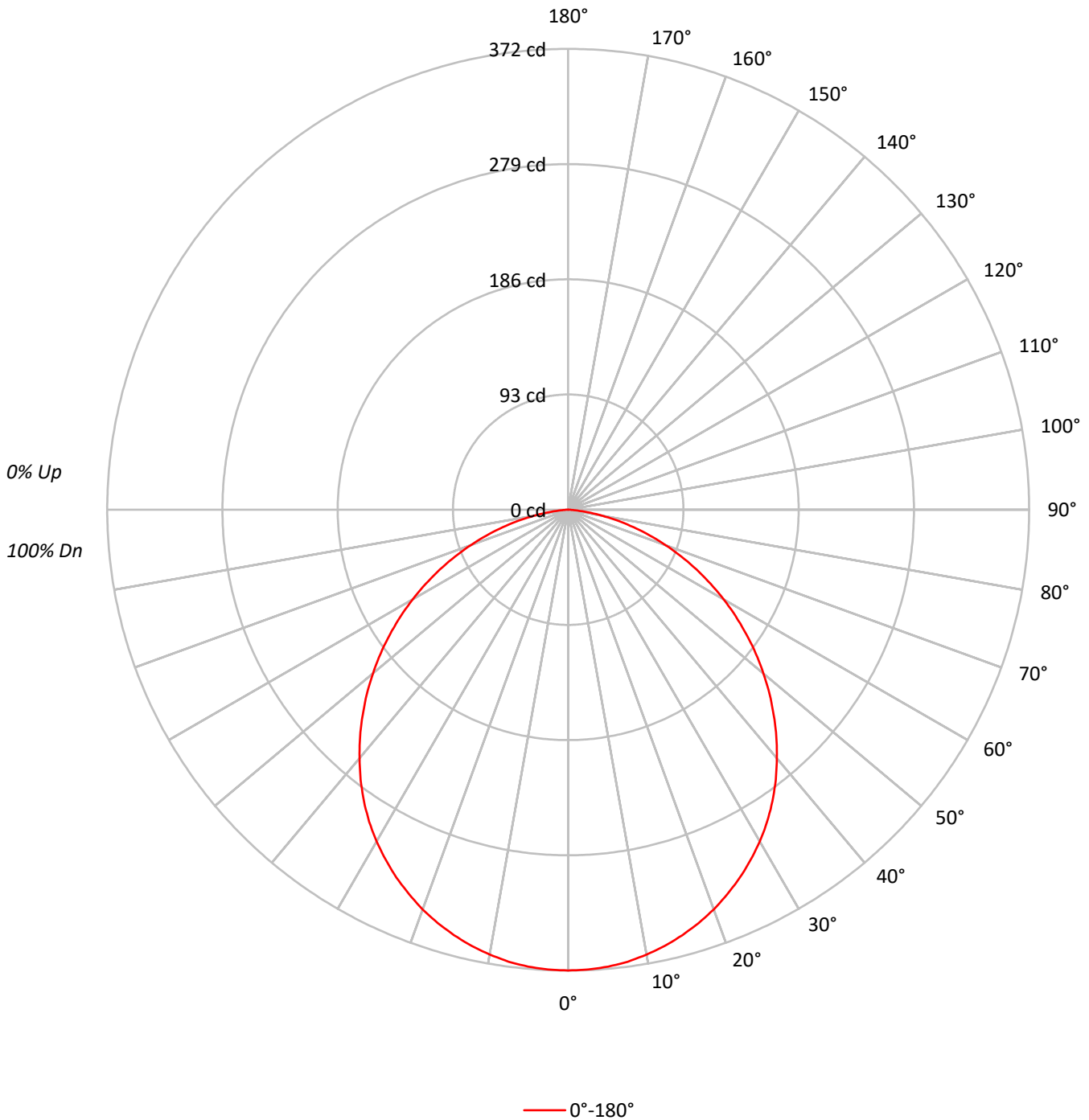
Lumens per Lamp: N/A
Luminaire Lumens: 985.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Circular (Dia: 0.5m x H: 0m)
CIE Type: Direct

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	96	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°	1895
5°	1893
10°	1886
15°	1875
20°	1861
25°	1842
30°	1818
35°	1787
40°	1742
45°	1690
50°	1630
55°	1560
60°	1477
65°	1376
70°	1246
75°	1076
80°	812
85°	316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1690 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	3.6
10°-20°	100.3	10.2
20°-30°	151.0	15.3
30°-40°	179.5	18.2
40°-50°	180.9	18.4
50°-60°	157.0	15.9
60°-70°	113.0	11.5
70°-80°	58.0	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°	286.5	29.1
0°-40°	466.0	47.3
0°-60°	803.9	81.6
0°-90°	985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	985.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	372	
5°	370	35
15°	356	100
25°	328	151
35°	287	180
45°	235	181
55°	176	157
65°	114	113
75°	55	58
85°	5	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	372.0
2.5°	371.5
5°	370.3
7.5°	368.0
10°	364.6
12.5°	360.7
15°	355.6
17.5°	349.9
20°	343.4
22.5°	335.8
25°	327.8
27.5°	318.8
30°	309.2
32.5°	298.8
35°	287.4
37.5°	275.1
40°	262.0
42.5°	248.6
45°	234.6
47.5°	220.4
50°	205.7
52.5°	190.8
55°	175.7
57.5°	160.4
60°	145.0
62.5°	129.6
65°	114.2
67.5°	98.8
70°	83.7
72.5°	68.9
75°	54.7
77.5°	40.8
80°	27.7
82.5°	15.9
85°	5.4
87.5°	1.9
90°	0.1

(END OF REPORT)