

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: P626464

Luminaire Tested: HLBC6LS9FSD2W1EMWR-3500K-900lm

Issue Date: 11/17/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P626464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2209385B001)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/17/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: HLBC6LS9FSD2W1EMWR-3500K-900lm  
Description: 6IN CANLESS LED DOWNLIGHT WITH SELECTABLE CCT AND SELECTABLE LUMEN OUTPUT  
Light Source: (1) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

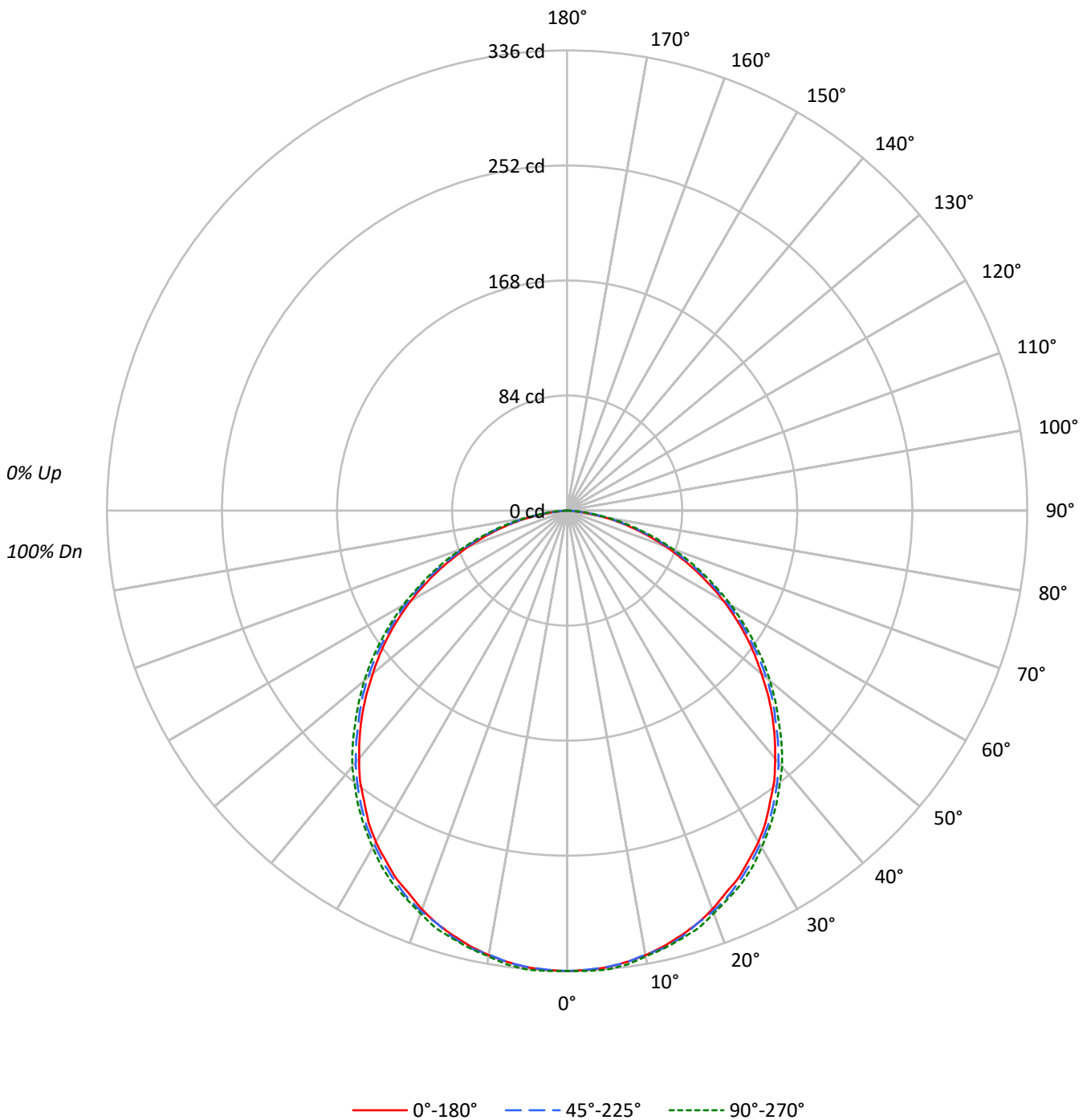
Lumens per Lamp: N/A  
Luminaire Lumens: 920.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.35  
Luminous Opening: Circular (Dia: 0.5m x H: 0m)  
CIE Type: Direct

Input Watts (W): 10.8  
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	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					100			
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	1712	1712	1712
5°	1711	1710	1720
10°	1705	1702	1710
15°	1694	1701	1706
20°	1680	1688	1696
25°	1663	1675	1691
30°	1643	1657	1670
35°	1607	1631	1649
40°	1570	1597	1623
45°	1526	1548	1575
50°	1467	1504	1532
55°	1414	1444	1474
60°	1344	1378	1411
65°	1248	1292	1327
70°	1136	1185	1223
75°	988	1045	1088
80°	771	839	895
85°	345	444	561

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 1623 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.9	3.5
10°-20°	91.2	9.9
20°-30°	137.9	15.0
30°-40°	165.1	17.9
40°-50°	167.6	18.2
50°-60°	147.3	16.0
60°-70°	108.0	11.7
70°-80°	58.2	6.3
80°-90°	12.7	1.4
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°	261.0	28.4
0°-40°	426.1	46.3
0°-60°	741.1	80.6
0°-90°	920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	920.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	336	336	336	336	336	
5°	335	334	334	337	336	32
15°	321	321	323	328	324	91
25°	296	297	298	304	301	136
35°	258	261	262	271	265	162
45°	212	213	215	225	219	163
55°	159	161	163	173	166	142
65°	104	105	107	117	110	103
75°	50	52	53	62	55	53
85°	6	7	8	14	10	10
90°	0	0	0	2	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	336.2	336.2	336.2	336.2	336.2
2.5°	335.8	334.6	335.6	337.7	336.5
5°	334.7	333.5	334.5	337.2	336.4
7.5°	332.5	332.7	332.7	336.5	334.4
10°	329.6	329.6	329.1	333.8	330.6
12.5°	325.9	326.8	327.1	329.7	327.4
15°	321.2	320.8	322.6	327.6	323.5
17.5°	316.2	315.8	316.1	322.8	319.5
20°	309.9	310.3	311.5	317.6	313.0
22.5°	302.3	304.7	305.5	310.8	306.8
25°	296.0	296.7	298.1	303.8	300.9
27.5°	287.5	288.6	290.2	296.9	293.2
30°	279.4	280.9	281.7	289.2	284.0
32.5°	269.9	271.3	272.8	280.3	274.8
35°	258.5	260.9	262.4	270.8	265.2
37.5°	248.6	250.2	251.7	260.7	254.5
40°	236.2	238.9	240.2	249.2	244.1
42.5°	224.3	225.6	227.8	237.7	231.8
45°	211.9	213.3	214.9	225.4	218.7
47.5°	198.8	200.8	203.2	212.7	206.2
50°	185.2	187.6	189.8	199.6	193.3
52.5°	172.4	174.7	176.4	186.9	180.0
55°	159.3	161.2	162.6	173.2	166.0
57.5°	145.5	147.5	149.0	159.4	152.2
60°	131.9	133.1	135.3	145.1	138.5
62.5°	117.5	119.1	121.4	131.6	123.9
65°	103.6	105.4	107.2	117.0	110.1
67.5°	89.7	91.8	93.1	102.8	96.2
70°	76.3	78.1	79.6	88.8	82.1
72.5°	63.0	64.8	66.2	75.2	68.7
75°	50.2	51.8	53.1	61.6	55.3
77.5°	37.9	39.4	40.6	48.7	42.6
80°	26.3	27.7	28.6	36.3	30.5
82.5°	15.6	16.8	17.7	24.8	19.2
85°	5.9	6.8	7.6	14.1	9.6
87.5°	2.0	2.3	2.5	4.7	2.9
90°	0.1	0.1	0.4	1.6	0.4

(END OF REPORT)