

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: P626466

Luminaire Tested: HLBC6LS9FSD2W1EMWR-4000K-900lm

Issue Date: 11/17/2022

Test Information

Test Method: LM-79-2019
Report Number: P626466
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-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

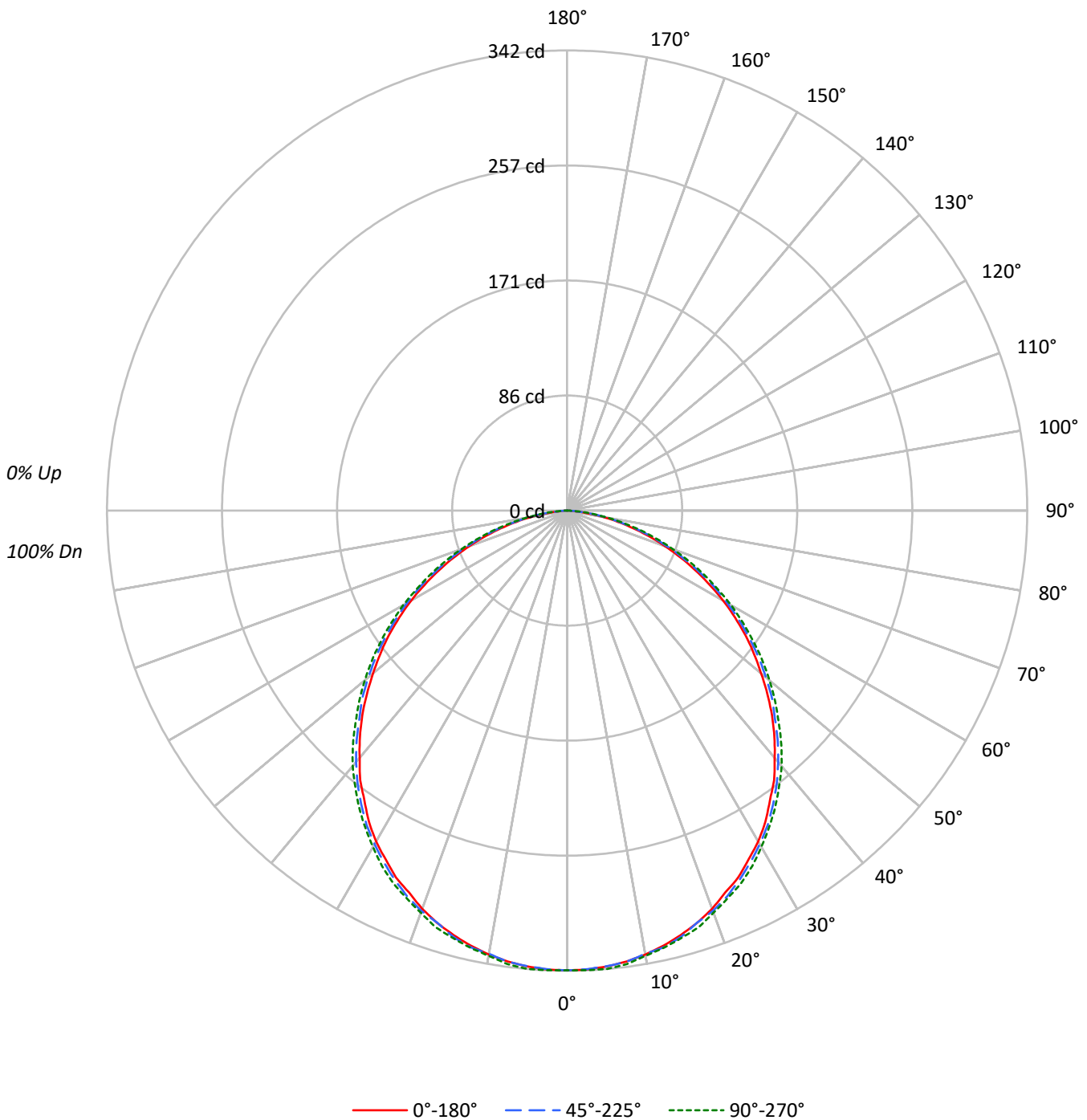
Lumens per Lamp: N/A
Luminaire Lumens: 935.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.35
Luminous Opening: Circular (Dia: 0.5m x H: 0m)
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1740	1740	1740
5°	1739	1738	1748
10°	1732	1730	1738
15°	1722	1728	1734
20°	1707	1716	1724
25°	1691	1702	1718
30°	1670	1684	1697
35°	1633	1658	1676
40°	1596	1623	1649
45°	1551	1573	1601
50°	1491	1528	1556
55°	1438	1468	1498
60°	1365	1401	1433
65°	1269	1312	1349
70°	1154	1205	1243
75°	1004	1063	1106
80°	783	853	909
85°	351	456	567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 1649 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	3.5
10°-20°	92.7	9.9
20°-30°	140.2	15.0
30°-40°	167.8	17.9
40°-50°	170.4	18.2
50°-60°	149.8	16.0
60°-70°	109.8	11.7
70°-80°	59.2	6.3
80°-90°	12.9	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°	265.2	28.4
0°-40°	433.0	46.3
0°-60°	753.1	80.5
0°-90°	935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	342	342	342	342	342	
5°	340	339	340	343	342	32
15°	326	326	328	333	329	92
25°	301	302	303	309	306	138
35°	263	265	267	275	270	165
45°	215	217	218	229	222	166
55°	162	164	165	176	169	144
65°	105	107	109	119	112	104
75°	51	53	54	63	56	54
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°	341.7	341.7	341.7	341.7	341.7
2.5°	341.3	340.1	341.1	343.2	341.9
5°	340.1	339.0	339.9	342.7	341.9
7.5°	338.0	338.1	338.1	342.0	339.9
10°	335.0	334.9	334.5	339.2	336.0
12.5°	331.2	332.1	332.4	335.1	332.7
15°	326.5	326.1	327.8	333.0	328.8
17.5°	321.3	320.9	321.2	328.1	324.7
20°	315.0	315.3	316.6	322.7	318.1
22.5°	307.2	309.6	310.4	315.9	311.8
25°	300.9	301.5	302.9	308.8	305.8
27.5°	292.2	293.4	294.9	301.8	297.9
30°	284.0	285.5	286.3	293.9	288.6
32.5°	274.3	275.7	277.3	284.8	279.3
35°	262.7	265.2	266.7	275.2	269.5
37.5°	252.7	254.3	255.8	264.9	258.7
40°	240.0	242.8	244.1	253.2	248.0
42.5°	228.0	229.3	231.5	241.6	235.6
45°	215.3	216.7	218.4	229.0	222.3
47.5°	202.0	204.1	206.5	216.2	209.6
50°	188.2	190.7	192.9	202.9	196.4
52.5°	175.2	177.5	179.3	190.0	182.9
55°	161.9	163.8	165.3	176.1	168.7
57.5°	147.9	149.9	151.4	162.0	154.7
60°	134.0	135.3	137.5	147.4	140.7
62.5°	119.4	121.0	123.4	133.8	125.9
65°	105.3	107.1	108.9	118.9	111.9
67.5°	91.2	93.3	94.6	104.5	97.7
70°	77.5	79.3	80.9	90.3	83.5
72.5°	64.1	65.9	67.3	76.4	69.8
75°	51.0	52.7	54.0	62.6	56.2
77.5°	38.5	40.0	41.2	49.5	43.2
80°	26.7	28.1	29.1	36.9	31.0
82.5°	15.8	17.1	18.0	25.2	19.6
85°	6.0	6.9	7.8	14.3	9.7
87.5°	2.1	2.3	2.6	4.8	3.0
90°	0.1	0.1	0.4	1.7	0.4

(END OF REPORT)