

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: P626468

Luminaire Tested: HLBC6LS9FSD2W1EMWR-5000K-900lm

Issue Date: 11/17/2022

Test Information

Test Method: LM-79-2019
Report Number: P626468
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-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

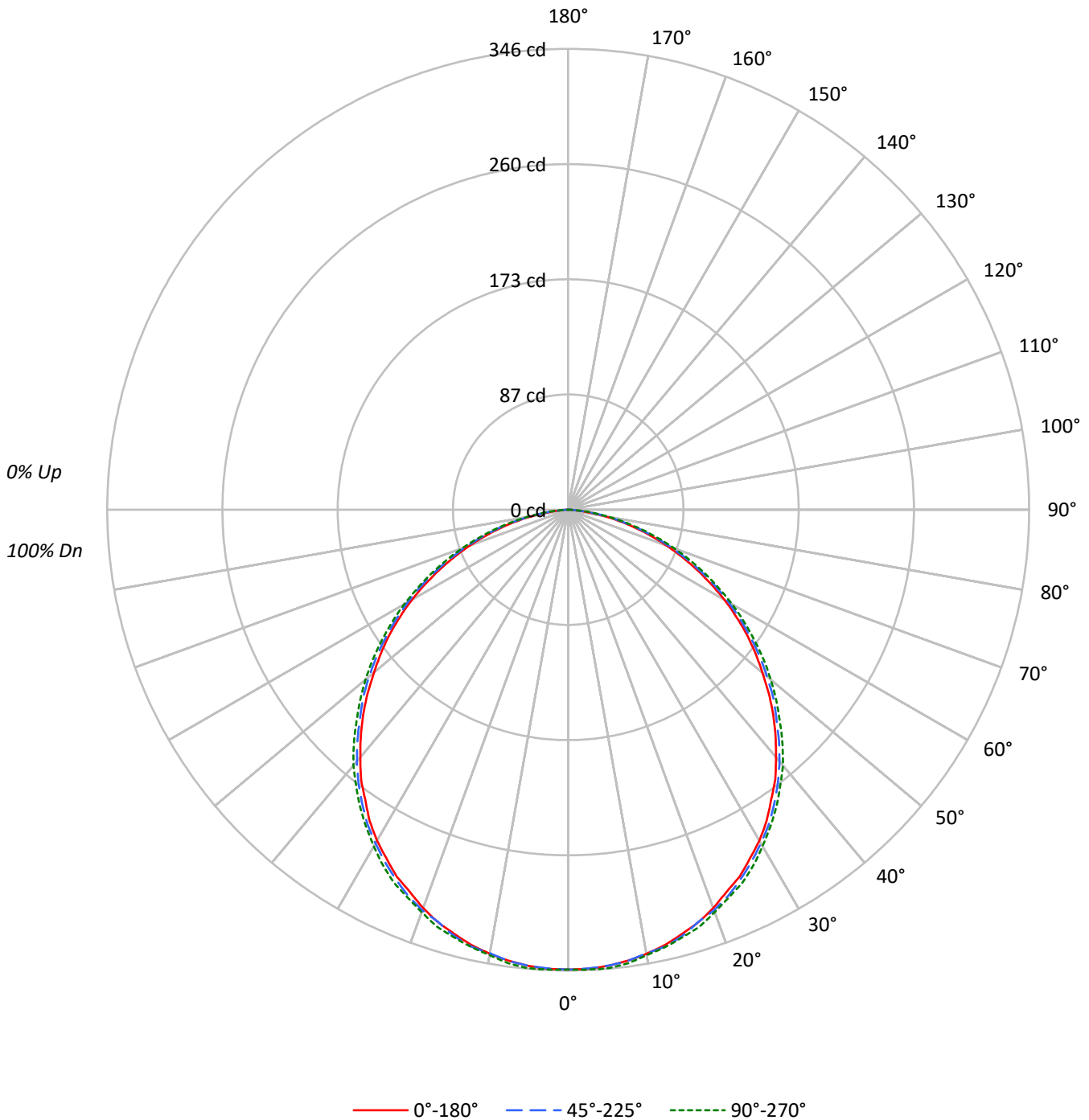
Lumens per Lamp: N/A
Luminaire Lumens: 945.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.35
Luminous Opening: Circular (Dia: 0.5m x H: 0m)
CIE Type: Direct

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	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	67	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°	1759	1759	1759
5°	1758	1757	1767
10°	1751	1748	1756
15°	1739	1747	1752
20°	1725	1734	1742
25°	1709	1721	1737
30°	1688	1701	1715
35°	1651	1676	1694
40°	1613	1640	1667
45°	1567	1590	1618
50°	1507	1544	1573
55°	1454	1483	1514
60°	1380	1416	1448
65°	1282	1327	1363
70°	1167	1218	1257
75°	1013	1074	1118
80°	792	862	918
85°	356	462	573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 1667 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	3.5
10°-20°	93.7	9.9
20°-30°	141.6	15.0
30°-40°	169.6	17.9
40°-50°	172.2	18.2
50°-60°	151.4	16.0
60°-70°	111.0	11.7
70°-80°	59.8	6.3
80°-90°	13.0	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°	268.1	28.4
0°-40°	437.6	46.3
0°-60°	761.2	80.5
0°-90°	945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	345	345	345	345	345	
5°	344	343	344	346	346	33
15°	330	330	331	336	332	93
25°	304	305	306	312	309	140
35°	266	268	270	278	272	166
45°	218	219	221	232	225	168
55°	164	166	167	178	170	146
65°	106	108	110	120	113	105
75°	52	53	55	63	57	55
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°	345.3	345.3	345.3	345.3	345.3
2.5°	345.0	343.7	344.7	346.9	345.6
5°	343.8	342.6	343.6	346.4	345.6
7.5°	341.6	341.7	341.8	345.6	343.5
10°	338.6	338.5	338.1	342.8	339.6
12.5°	334.8	335.6	336.0	338.6	336.3
15°	329.9	329.6	331.3	336.5	332.3
17.5°	324.8	324.3	324.6	331.6	328.2
20°	318.3	318.7	320.0	326.2	321.5
22.5°	310.5	312.9	313.8	319.2	315.1
25°	304.1	304.7	306.2	312.1	309.1
27.5°	295.3	296.5	298.0	305.0	301.1
30°	287.0	288.5	289.3	297.1	291.7
32.5°	277.2	278.7	280.2	287.9	282.3
35°	265.6	268.0	269.6	278.2	272.4
37.5°	255.4	257.0	258.5	267.8	261.4
40°	242.6	245.4	246.7	255.9	250.7
42.5°	230.4	231.7	234.0	244.2	238.1
45°	217.6	219.1	220.8	231.5	224.6
47.5°	204.2	206.3	208.7	218.5	211.8
50°	190.2	192.7	194.9	205.1	198.5
52.5°	177.1	179.4	181.2	192.0	184.9
55°	163.7	165.5	167.0	178.0	170.5
57.5°	149.5	151.5	153.1	163.7	156.4
60°	135.5	136.7	139.0	149.0	142.2
62.5°	120.7	122.3	124.7	135.2	127.3
65°	106.4	108.3	110.1	120.2	113.1
67.5°	92.1	94.3	95.6	105.6	98.8
70°	78.4	80.2	81.8	91.2	84.4
72.5°	64.8	66.6	68.0	77.2	70.6
75°	51.5	53.2	54.6	63.3	56.8
77.5°	38.9	40.5	41.7	50.0	43.7
80°	27.0	28.4	29.4	37.3	31.3
82.5°	16.0	17.3	18.1	25.5	19.8
85°	6.1	7.0	7.9	14.5	9.8
87.5°	2.1	2.4	2.6	4.8	3.0
90°	0.1	0.1	0.4	1.7	0.4

(END OF REPORT)