

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: P626460

Luminaire Tested: HLBC6LS9FSD2W1EMWR-2700K-900lm

Issue Date: 11/17/2022

Test Information

Test Method: LM-79-2019
Report Number: P626460
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-2700K-900lm
Description: 6IN CANLESS LED DOWNLIGHT WITH SELECTABLE CCT AND SELECTABLE LUMEN OUTPUT
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

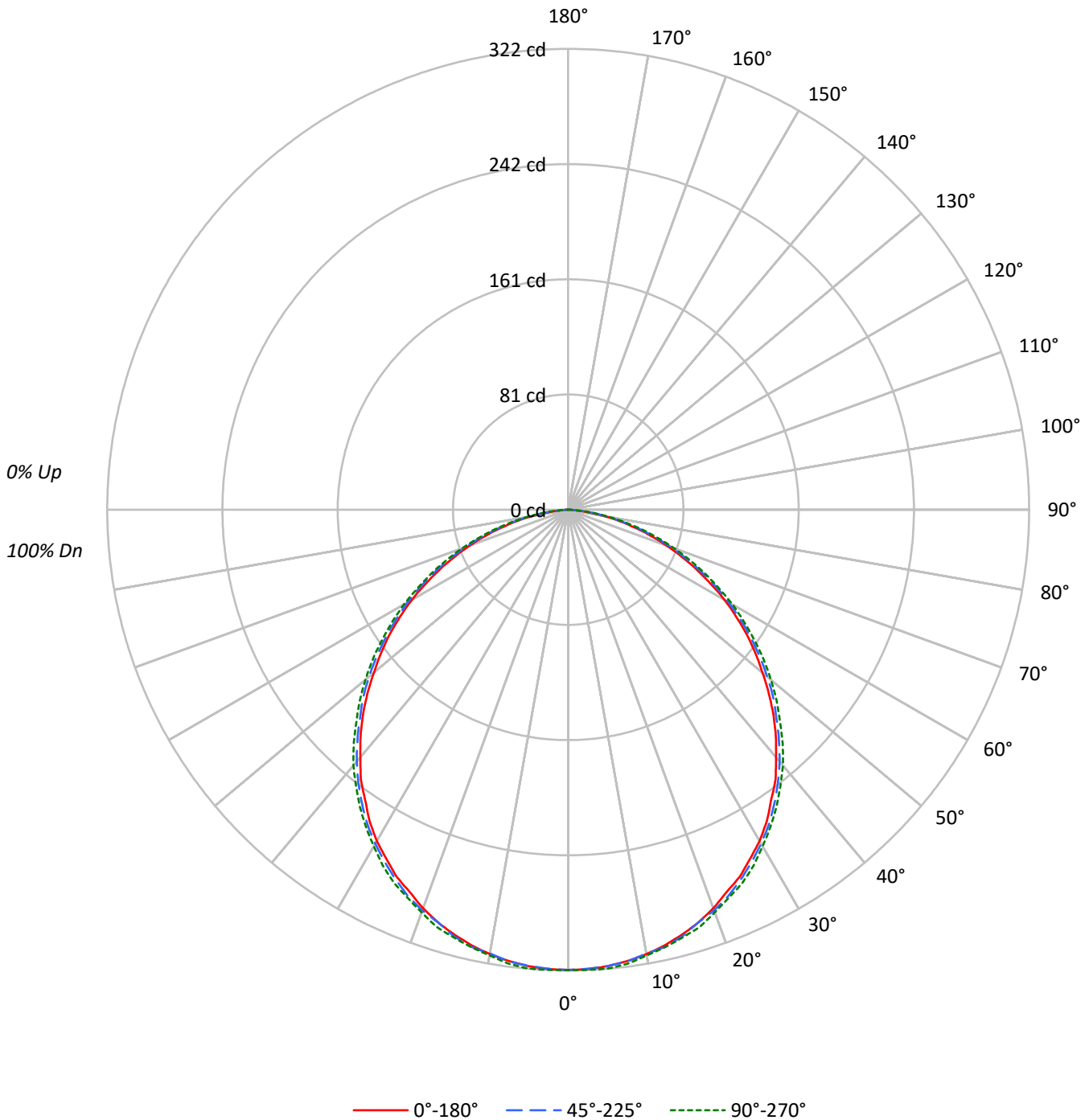
Lumens per Lamp: N/A
Luminaire Lumens: 880.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.35
Luminous Opening: Circular (Dia: 0.5m x H: 0m)
CIE Type: Direct

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	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	67	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°	1638	1638	1638
5°	1636	1635	1645
10°	1631	1628	1635
15°	1620	1627	1631
20°	1606	1615	1623
25°	1591	1602	1617
30°	1572	1584	1597
35°	1538	1561	1577
40°	1502	1527	1552
45°	1460	1481	1507
50°	1403	1438	1465
55°	1353	1381	1410
60°	1285	1318	1350
65°	1194	1235	1269
70°	1087	1135	1170
75°	945	1000	1041
80°	736	804	856
85°	327	427	538

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 1553 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	3.5
10°-20°	87.2	9.9
20°-30°	131.9	15.0
30°-40°	157.9	17.9
40°-50°	160.4	18.2
50°-60°	140.9	16.0
60°-70°	103.3	11.7
70°-80°	55.7	6.3
80°-90°	12.1	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°	249.6	28.4
0°-40°	407.5	46.3
0°-60°	708.8	80.5
0°-90°	880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	322	322	322	322	322	
5°	320	319	320	323	322	30
15°	307	307	308	313	309	87
25°	283	284	285	291	288	130
35°	247	250	251	259	254	155
45°	203	204	206	216	209	156
55°	152	154	156	166	159	136
65°	99	101	102	112	105	98
75°	48	50	51	59	53	51
85°	6	6	7	14	9	10
90°	0	0	0	2	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	321.6	321.6	321.6	321.6	321.6
2.5°	321.2	320.1	321.0	323.0	321.8
5°	320.1	319.0	319.9	322.6	321.8
7.5°	318.1	318.2	318.3	321.9	319.9
10°	315.3	315.2	314.8	319.3	316.2
12.5°	311.7	312.6	312.9	315.4	313.1
15°	307.3	306.9	308.5	313.4	309.4
17.5°	302.4	302.0	302.3	308.8	305.6
20°	296.4	296.8	298.0	303.8	299.4
22.5°	289.1	291.4	292.2	297.3	293.4
25°	283.2	283.8	285.1	290.6	287.8
27.5°	275.0	276.1	277.5	284.0	280.4
30°	267.3	268.7	269.4	276.6	271.6
32.5°	258.1	259.5	260.9	268.1	262.9
35°	247.3	249.6	251.0	259.0	253.6
37.5°	237.8	239.3	240.7	249.3	243.4
40°	225.9	228.5	229.7	238.3	233.4
42.5°	214.6	215.8	217.9	227.4	221.7
45°	202.7	204.0	205.6	215.6	209.2
47.5°	190.2	192.1	194.3	203.5	197.3
50°	177.1	179.5	181.5	191.0	184.9
52.5°	164.9	167.1	168.7	178.8	172.2
55°	152.4	154.2	155.5	165.7	158.8
57.5°	139.2	141.1	142.5	152.5	145.6
60°	126.2	127.3	129.4	138.8	132.5
62.5°	112.4	113.9	116.1	125.9	118.5
65°	99.1	100.8	102.5	111.9	105.3
67.5°	85.8	87.8	89.0	98.3	92.0
70°	73.0	74.7	76.2	85.0	78.6
72.5°	60.3	62.0	63.3	71.9	65.7
75°	48.0	49.6	50.8	58.9	52.9
77.5°	36.3	37.7	38.8	46.6	40.7
80°	25.1	26.5	27.4	34.7	29.2
82.5°	14.9	16.1	16.9	23.8	18.4
85°	5.6	6.5	7.3	13.5	9.2
87.5°	2.0	2.2	2.4	4.5	2.8
90°	0.1	0.1	0.4	1.6	0.4

(END OF REPORT)