

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: P626462

Luminaire Tested: HLBC6LS9FSD2W1EMWR-3000K-900lm

Issue Date: 11/17/2022

Test Information

Test Method: LM-79-2019
Report Number: P626462
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-3000K-900lm
Description: 6IN CANLESS LED DOWNLIGHT WITH SELECTABLE CCT AND SELECTABLE LUMEN OUTPUT
Light Source: (1) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

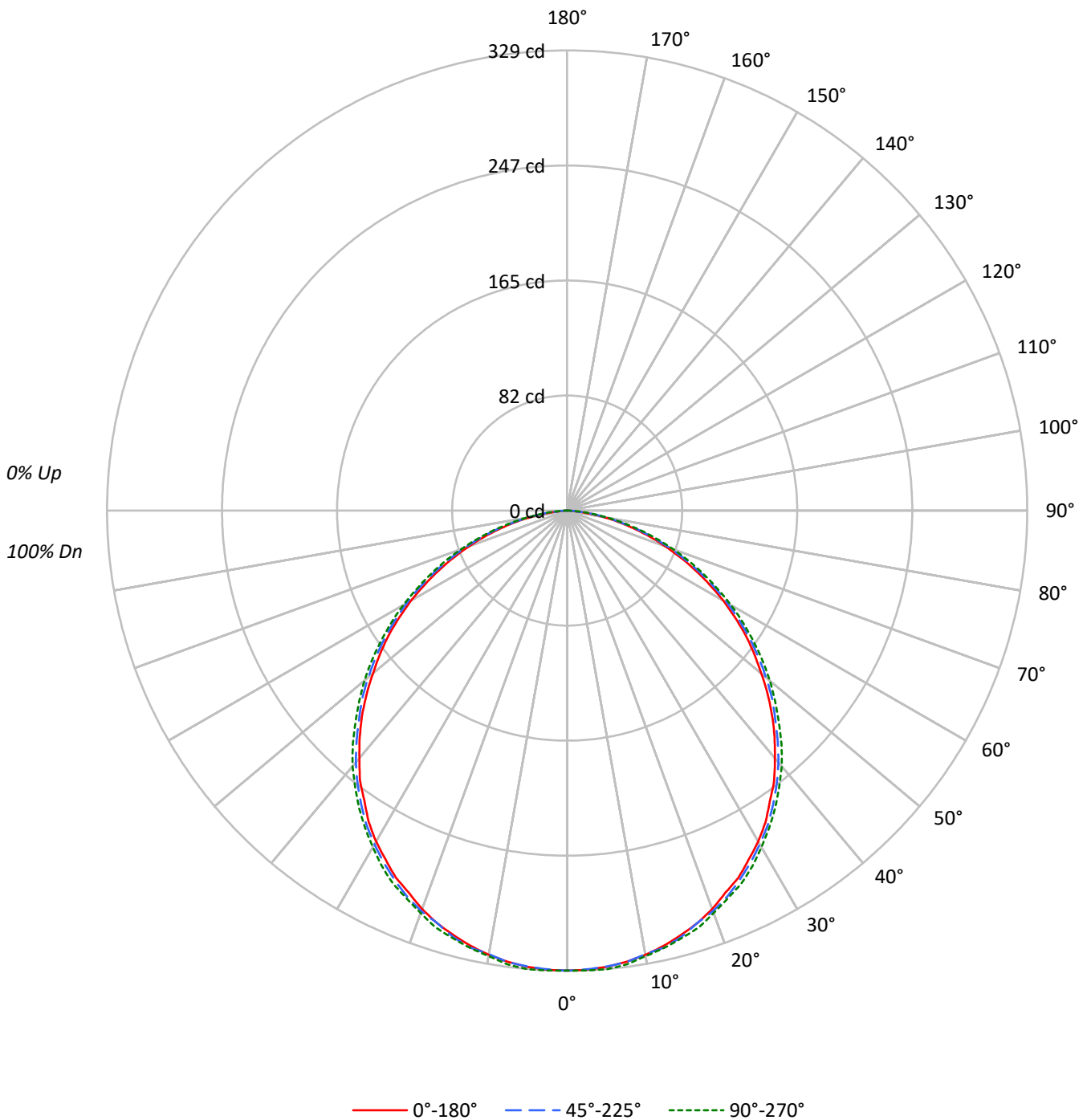
Lumens per Lamp: N/A
Luminaire Lumens: 900.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.35
Luminous Opening: Circular (Dia: 0.5m x H: 0m)
CIE Type: Direct

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°	1675	1675	1675
5°	1674	1673	1682
10°	1668	1665	1672
15°	1657	1664	1669
20°	1643	1652	1660
25°	1627	1639	1654
30°	1607	1620	1634
35°	1572	1596	1613
40°	1536	1562	1587
45°	1493	1514	1541
50°	1436	1471	1498
55°	1384	1413	1442
60°	1314	1348	1380
65°	1221	1263	1298
70°	1111	1160	1196
75°	966	1023	1065
80°	754	821	874
85°	339	438	549

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 1588 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	3.5
10°-20°	89.2	9.9
20°-30°	134.9	15.0
30°-40°	161.5	17.9
40°-50°	164.0	18.2
50°-60°	144.1	16.0
60°-70°	105.7	11.7
70°-80°	57.0	6.3
80°-90°	12.4	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°	255.3	28.4
0°-40°	416.8	46.3
0°-60°	724.9	80.5
0°-90°	900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	329	329	329	329	329	
5°	327	326	327	330	329	31
15°	314	314	316	320	316	89
25°	290	290	292	297	294	133
35°	253	255	257	265	259	158
45°	207	209	210	220	214	160
55°	156	158	159	170	162	139
65°	101	103	105	114	108	100
75°	49	51	52	60	54	52
85°	6	7	8	14	9	10
90°	0	0	0	2	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	328.9	328.9	328.9	328.9	328.9
2.5°	328.5	327.4	328.3	330.4	329.1
5°	327.4	326.3	327.2	329.9	329.1
7.5°	325.3	325.5	325.5	329.2	327.2
10°	322.5	322.4	322.0	326.5	323.4
12.5°	318.8	319.7	320.0	322.5	320.3
15°	314.2	313.9	315.5	320.5	316.5
17.5°	309.3	308.9	309.2	315.8	312.6
20°	303.2	303.5	304.8	310.7	306.2
22.5°	295.7	298.0	298.8	304.0	300.1
25°	289.6	290.2	291.6	297.2	294.4
27.5°	281.2	282.4	283.8	290.5	286.8
30°	273.3	274.8	275.5	282.9	277.8
32.5°	264.0	265.4	266.9	274.2	268.9
35°	252.9	255.3	256.7	264.9	259.4
37.5°	243.2	244.8	246.2	255.0	249.0
40°	231.1	233.7	235.0	243.7	238.7
42.5°	219.5	220.7	222.8	232.6	226.8
45°	207.3	208.6	210.2	220.5	214.0
47.5°	194.5	196.4	198.7	208.1	201.7
50°	181.2	183.5	185.6	195.3	189.1
52.5°	168.7	170.9	172.6	182.8	176.1
55°	155.9	157.7	159.1	169.5	162.4
57.5°	142.3	144.3	145.8	155.9	148.9
60°	129.0	130.2	132.3	141.9	135.5
62.5°	114.9	116.5	118.8	128.7	121.2
65°	101.3	103.1	104.8	114.4	107.7
67.5°	87.8	89.8	91.1	100.5	94.1
70°	74.6	76.4	77.9	86.9	80.3
72.5°	61.7	63.4	64.8	73.6	67.2
75°	49.1	50.7	52.0	60.3	54.1
77.5°	37.1	38.5	39.7	47.7	41.6
80°	25.7	27.1	28.0	35.5	29.8
82.5°	15.2	16.5	17.3	24.3	18.8
85°	5.8	6.7	7.5	13.8	9.4
87.5°	2.0	2.3	2.5	4.6	2.8
90°	0.1	0.1	0.4	1.6	0.4

(END OF REPORT)