

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: P626465

Luminaire Tested: HLBC6LS9FSD2W1EMWR-4000K-1200lm

Issue Date: 11/17/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P626465  
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-1200lm  
Description: 6IN CANLESS LED DOWNLIGHT WITH SELECTABLE CCT AND SELECTABLE LUMEN OUTPUT  
Light Source: (1) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

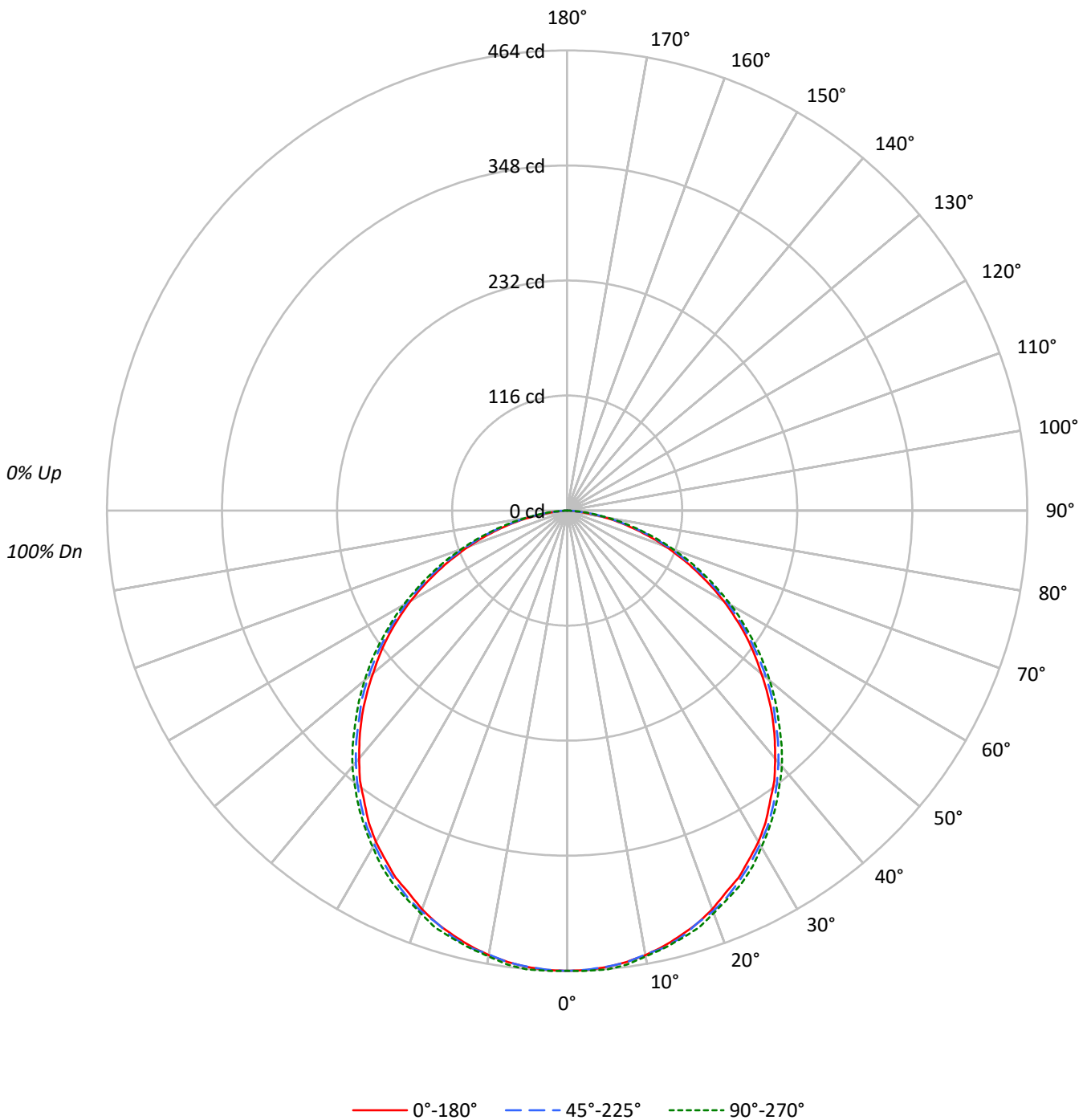
Lumens per Lamp: N/A  
Luminaire Lumens: 1270.0 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.35  
Luminous Opening: Circular (Dia: 0.5m x H: 0m)  
CIE Type: Direct

Input Watts (W): 15.8  
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	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°	2364	2364	2364
5°	2362	2360	2374
10°	2354	2350	2360
15°	2338	2348	2354
20°	2319	2331	2341
25°	2297	2312	2334
30°	2268	2286	2305
35°	2219	2253	2276
40°	2168	2204	2240
45°	2107	2137	2174
50°	2025	2076	2114
55°	1953	1993	2035
60°	1855	1902	1947
65°	1723	1782	1832
70°	1568	1637	1689
75°	1362	1444	1501
80°	1065	1159	1235
85°	473	619	771

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 2241 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.0	3.5
10°-20°	125.9	9.9
20°-30°	190.4	15.0
30°-40°	227.9	17.9
40°-50°	231.4	18.2
50°-60°	203.4	16.0
60°-70°	149.1	11.7
70°-80°	80.4	6.3
80°-90°	17.5	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°	360.2	28.4
0°-40°	588.1	46.3
0°-60°	1023.0	80.5
0°-90°	1270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1270.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	464	464	464	464	464	
5°	462	460	462	466	464	44
15°	443	443	445	452	446	125
25°	409	410	411	419	415	188
35°	357	360	362	374	366	224
45°	292	294	297	311	302	225
55°	220	222	224	239	229	196
65°	143	146	148	162	152	142
75°	69	72	73	85	76	74
85°	8	9	11	19	13	14
90°	0	0	1	2	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	464.1	464.1	464.1	464.1	464.1
2.5°	463.6	461.9	463.3	466.2	464.5
5°	462.0	460.4	461.7	465.5	464.4
7.5°	459.0	459.3	459.3	464.5	461.7
10°	455.1	454.9	454.4	460.8	456.4
12.5°	449.9	451.1	451.5	455.1	451.9
15°	443.4	442.9	445.3	452.3	446.5
17.5°	436.5	435.9	436.3	445.6	441.1
20°	427.8	428.3	430.0	438.4	432.0
22.5°	417.2	420.6	421.7	429.0	423.5
25°	408.7	409.5	411.4	419.4	415.4
27.5°	396.9	398.5	400.5	409.9	404.7
30°	385.7	387.7	388.8	399.2	392.0
32.5°	372.5	374.5	376.6	386.9	379.4
35°	356.9	360.2	362.3	373.8	366.0
37.5°	343.2	345.4	347.4	359.8	351.3
40°	326.1	329.8	331.5	344.0	336.9
42.5°	309.7	311.4	314.5	328.2	320.0
45°	292.5	294.4	296.7	311.1	301.9
47.5°	274.4	277.2	280.4	293.7	284.7
50°	255.6	259.0	262.0	275.6	266.8
52.5°	238.0	241.2	243.5	258.0	248.5
55°	219.9	222.5	224.5	239.2	229.2
57.5°	200.9	203.6	205.7	220.0	210.1
60°	182.1	183.7	186.7	200.3	191.1
62.5°	162.2	164.4	167.6	181.7	171.0
65°	143.0	145.5	147.9	161.5	152.0
67.5°	123.8	126.7	128.5	141.9	132.7
70°	105.3	107.8	109.9	122.6	113.4
72.5°	87.0	89.5	91.4	103.8	94.9
75°	69.2	71.5	73.4	85.1	76.3
77.5°	52.3	54.4	56.0	67.2	58.7
80°	36.3	38.2	39.5	50.1	42.1
82.5°	21.5	23.2	24.4	34.3	26.6
85°	8.1	9.4	10.6	19.4	13.2
87.5°	2.8	3.2	3.5	6.5	4.0
90°	0.1	0.2	0.6	2.3	0.5

(END OF REPORT)