

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: P626463

Luminaire Tested: HLBC6LS9FSD2W1EMWR-3500K-1200lm

Issue Date: 11/17/2022

Test Information

Test Method: LM-79-2019
Report Number: P626463
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-3500K-1200lm
Description: 6IN CANLESS LED DOWNLIGHT WITH SELECTABLE CCT AND SELECTABLE LUMEN OUTPUT
Light Source: (1) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

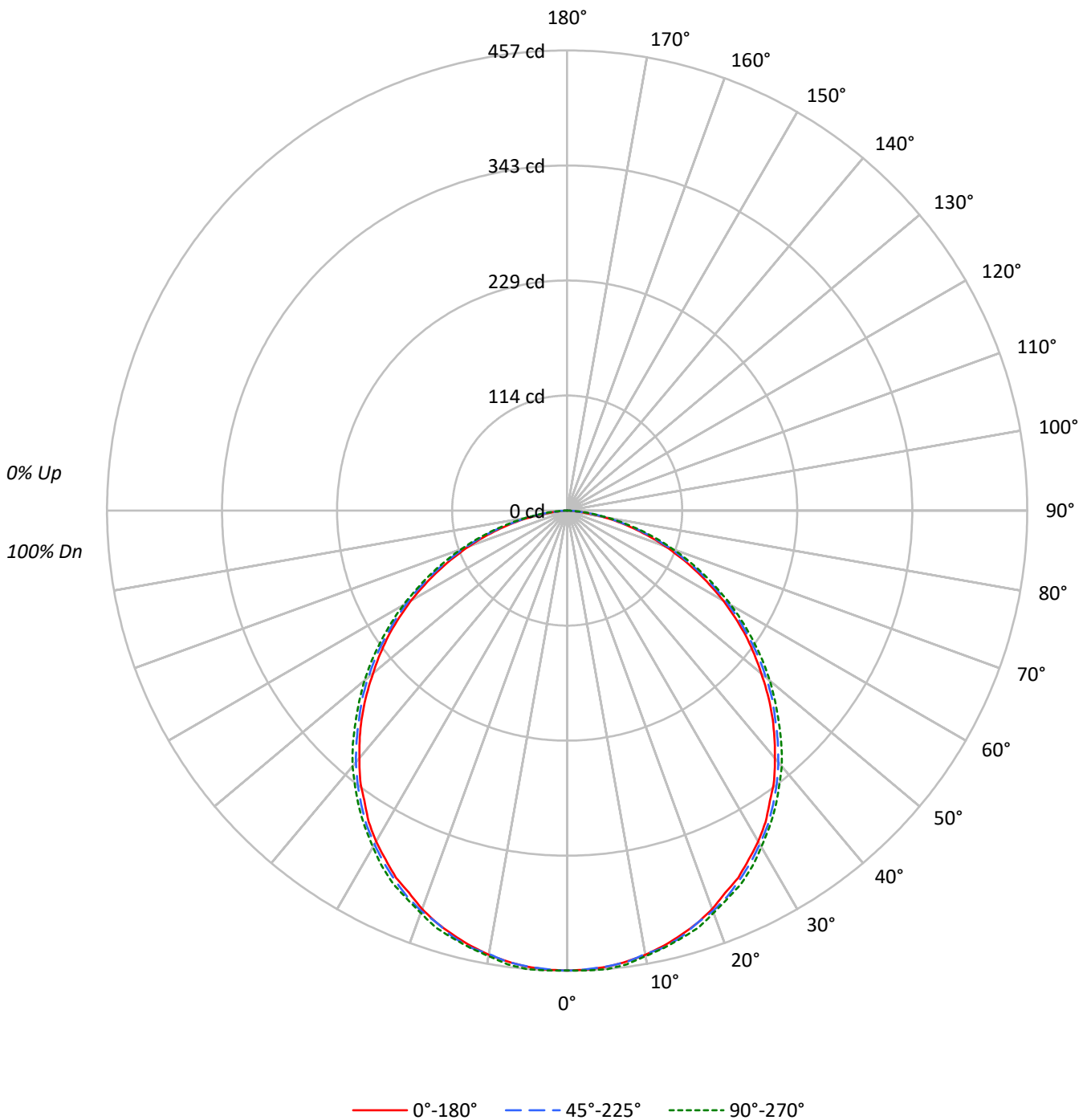
Lumens per Lamp: N/A
Luminaire Lumens: 1250.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.35
Luminous Opening: Circular (Dia: 0.5m x H: 0m)
CIE Type: Direct

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	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°	2326	2326	2326
5°	2325	2324	2337
10°	2316	2313	2323
15°	2301	2311	2317
20°	2282	2294	2305
25°	2260	2276	2298
30°	2232	2251	2269
35°	2184	2217	2240
40°	2133	2169	2205
45°	2074	2103	2141
50°	1993	2043	2081
55°	1922	1961	2003
60°	1825	1872	1916
65°	1696	1755	1803
70°	1544	1611	1662
75°	1342	1421	1478
80°	1047	1141	1217
85°	467	608	760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 2205 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	3.5
10°-20°	123.9	9.9
20°-30°	187.4	15.0
30°-40°	224.3	17.9
40°-50°	227.8	18.2
50°-60°	200.2	16.0
60°-70°	146.8	11.7
70°-80°	79.1	6.3
80°-90°	17.2	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°	354.6	28.4
0°-40°	578.9	46.3
0°-60°	1006.9	80.5
0°-90°	1250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	455	453	454	458	457	43
15°	436	436	438	445	440	123
25°	402	403	405	413	409	185
35°	351	354	357	368	360	220
45°	288	290	292	306	297	222
55°	216	219	221	235	226	193
65°	141	143	146	159	150	139
75°	68	70	72	84	75	72
85°	8	9	10	19	13	14
90°	0	0	1	2	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	456.8	456.8	456.8	456.8	456.8
2.5°	456.3	454.7	456.0	458.8	457.1
5°	454.7	453.2	454.5	458.2	457.1
7.5°	451.8	452.0	452.1	457.2	454.4
10°	447.9	447.8	447.2	453.5	449.2
12.5°	442.8	444.0	444.4	447.9	444.8
15°	436.4	435.9	438.3	445.1	439.5
17.5°	429.6	429.0	429.4	438.6	434.1
20°	421.1	421.6	423.3	431.5	425.2
22.5°	410.7	413.9	415.0	422.3	416.8
25°	402.2	403.1	405.0	412.8	408.9
27.5°	390.6	392.2	394.2	403.4	398.3
30°	379.6	381.6	382.7	393.0	385.8
32.5°	366.7	368.6	370.7	380.8	373.4
35°	351.3	354.5	356.6	367.9	360.3
37.5°	337.8	340.0	341.9	354.2	345.8
40°	320.9	324.6	326.3	338.5	331.6
42.5°	304.8	306.5	309.5	323.0	315.0
45°	287.9	289.8	292.0	306.2	297.2
47.5°	270.1	272.8	276.0	289.1	280.2
50°	251.6	254.9	257.8	271.3	262.6
52.5°	234.2	237.4	239.7	253.9	244.5
55°	216.5	219.0	220.9	235.4	225.6
57.5°	197.7	200.4	202.5	216.6	206.8
60°	179.2	180.8	183.8	197.1	188.1
62.5°	159.6	161.8	165.0	178.8	168.3
65°	140.7	143.2	145.6	159.0	149.6
67.5°	121.9	124.7	126.5	139.6	130.6
70°	103.7	106.1	108.2	120.7	111.6
72.5°	85.7	88.1	90.0	102.2	93.4
75°	68.2	70.4	72.2	83.7	75.1
77.5°	51.5	53.5	55.1	66.2	57.8
80°	35.7	37.6	38.9	49.4	41.5
82.5°	21.1	22.9	24.0	33.8	26.1
85°	8.0	9.2	10.4	19.1	13.0
87.5°	2.8	3.1	3.4	6.4	4.0
90°	0.1	0.2	0.6	2.2	0.5

(END OF REPORT)