

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: P626459

Luminaire Tested: HLBC6LS9FSD2W1EMWR-2700K-1200lm

Issue Date: 11/17/2022

Test Information

Test Method: LM-79-2019
Report Number: P626459
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-1200lm
Description: 6IN CANLESS LED DOWNLIGHT WITH SELECTABLE CCT AND SELECTABLE LUMEN OUTPUT
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

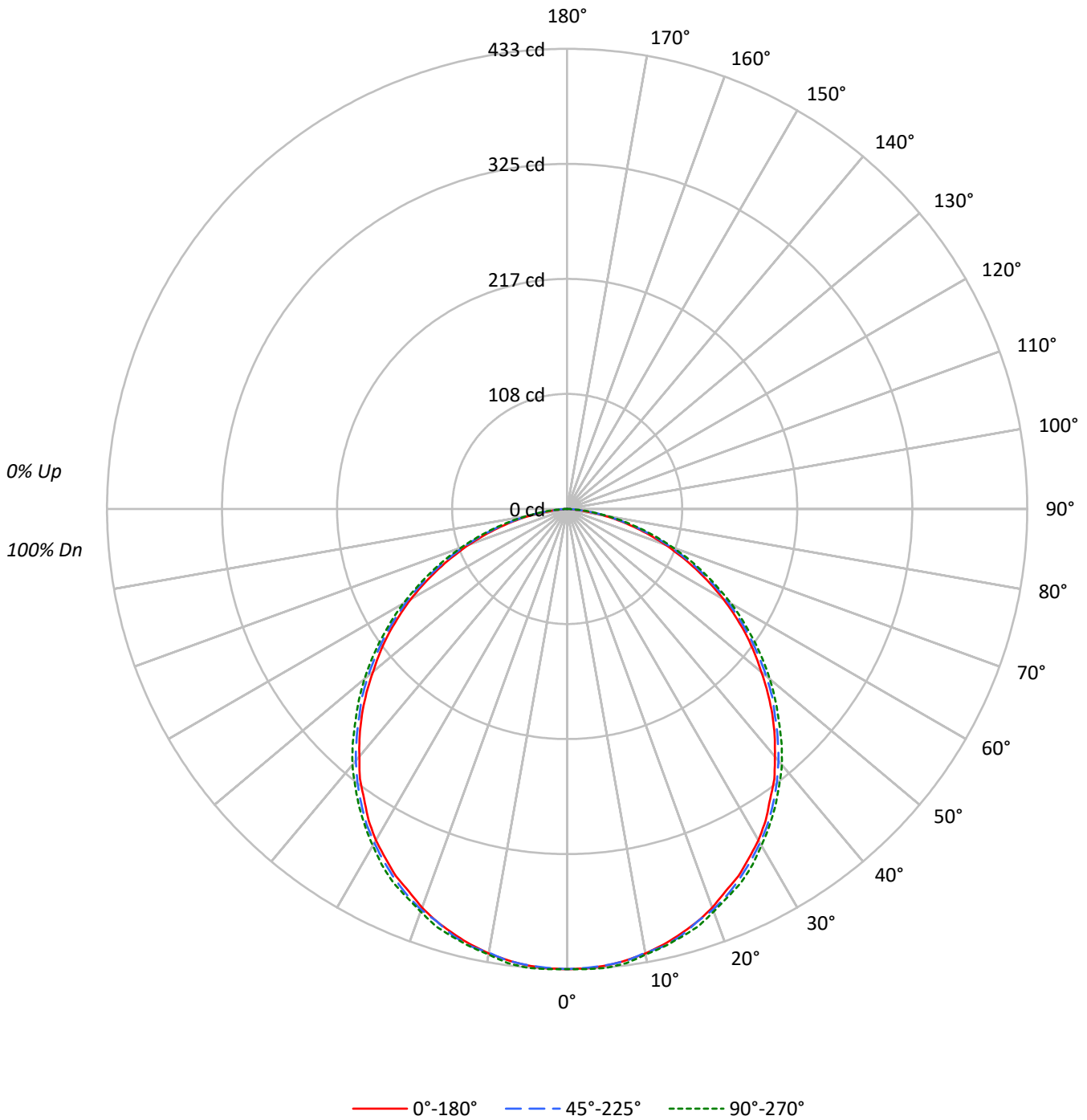
Lumens per Lamp: N/A
Luminaire Lumens: 1185.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.35
Luminous Opening: Circular (Dia: 0.5m x H: 0m)
CIE Type: Direct

Input Watts (W): 15.7
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°	2205	2205	2205
5°	2204	2202	2215
10°	2196	2193	2202
15°	2181	2191	2197
20°	2164	2175	2185
25°	2143	2157	2178
30°	2117	2134	2151
35°	2070	2101	2123
40°	2022	2057	2090
45°	1966	1994	2029
50°	1890	1936	1973
55°	1822	1859	1898
60°	1731	1774	1817
65°	1608	1663	1709
70°	1464	1528	1575
75°	1271	1346	1401
80°	994	1082	1153
85°	444	573	719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 2091 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	3.5
10°-20°	117.5	9.9
20°-30°	177.6	15.0
30°-40°	212.6	17.9
40°-50°	215.9	18.2
50°-60°	189.8	16.0
60°-70°	139.1	11.7
70°-80°	75.0	6.3
80°-90°	16.3	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°	336.1	28.4
0°-40°	548.8	46.3
0°-60°	954.5	80.5
0°-90°	1185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	433	433	433	433	433	
5°	431	430	431	434	433	41
15°	414	413	416	422	417	117
25°	381	382	384	391	388	175
35°	333	336	338	349	342	209
45°	273	275	277	290	282	210
55°	205	208	209	223	214	183
65°	133	136	138	151	142	132
75°	65	67	68	79	71	69
85°	8	9	10	18	12	13
90°	0	0	1	2	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	433.0	433.0	433.0	433.0	433.0
2.5°	432.6	431.0	432.2	435.0	433.4
5°	431.1	429.6	430.8	434.4	433.3
7.5°	428.3	428.5	428.6	433.4	430.8
10°	424.6	424.5	424.0	429.9	425.8
12.5°	419.8	420.9	421.3	424.6	421.7
15°	413.7	413.3	415.5	422.0	416.7
17.5°	407.2	406.7	407.1	415.8	411.6
20°	399.2	399.7	401.3	409.0	403.1
22.5°	389.3	392.4	393.4	400.3	395.1
25°	381.3	382.1	383.9	391.4	387.6
27.5°	370.3	371.8	373.7	382.5	377.6
30°	359.9	361.8	362.8	372.5	365.8
32.5°	347.6	349.4	351.4	361.0	354.0
35°	333.0	336.1	338.0	348.8	341.5
37.5°	320.2	322.3	324.1	335.8	327.8
40°	304.2	307.7	309.4	320.9	314.4
42.5°	289.0	290.6	293.4	306.2	298.6
45°	272.9	274.7	276.8	290.3	281.7
47.5°	256.1	258.7	261.7	274.0	265.6
50°	238.5	241.7	244.4	257.2	249.0
52.5°	222.1	225.0	227.2	240.7	231.8
55°	205.2	207.6	209.4	223.2	213.8
57.5°	187.4	190.0	191.9	205.3	196.1
60°	169.9	171.4	174.2	186.8	178.4
62.5°	151.3	153.4	156.4	169.5	159.6
65°	133.4	135.8	138.0	150.7	141.8
67.5°	115.5	118.2	119.9	132.4	123.9
70°	98.3	100.6	102.6	114.4	105.8
72.5°	81.2	83.5	85.3	96.8	88.5
75°	64.6	66.7	68.4	79.4	71.2
77.5°	48.8	50.8	52.3	62.7	54.8
80°	33.9	35.6	36.9	46.8	39.3
82.5°	20.0	21.7	22.8	32.0	24.8
85°	7.6	8.8	9.8	18.1	12.3
87.5°	2.6	3.0	3.3	6.0	3.7
90°	0.1	0.1	0.6	2.1	0.5

(END OF REPORT)