

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P272198

Luminaire Tested: **CLD7089SWH-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P272198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-928-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: CLD7089SWH-4000K
Description: HALO CLD SELECTABLE CCT LED FIXTURE
Light Source: (48) 90 CRI LEDS AT 4000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

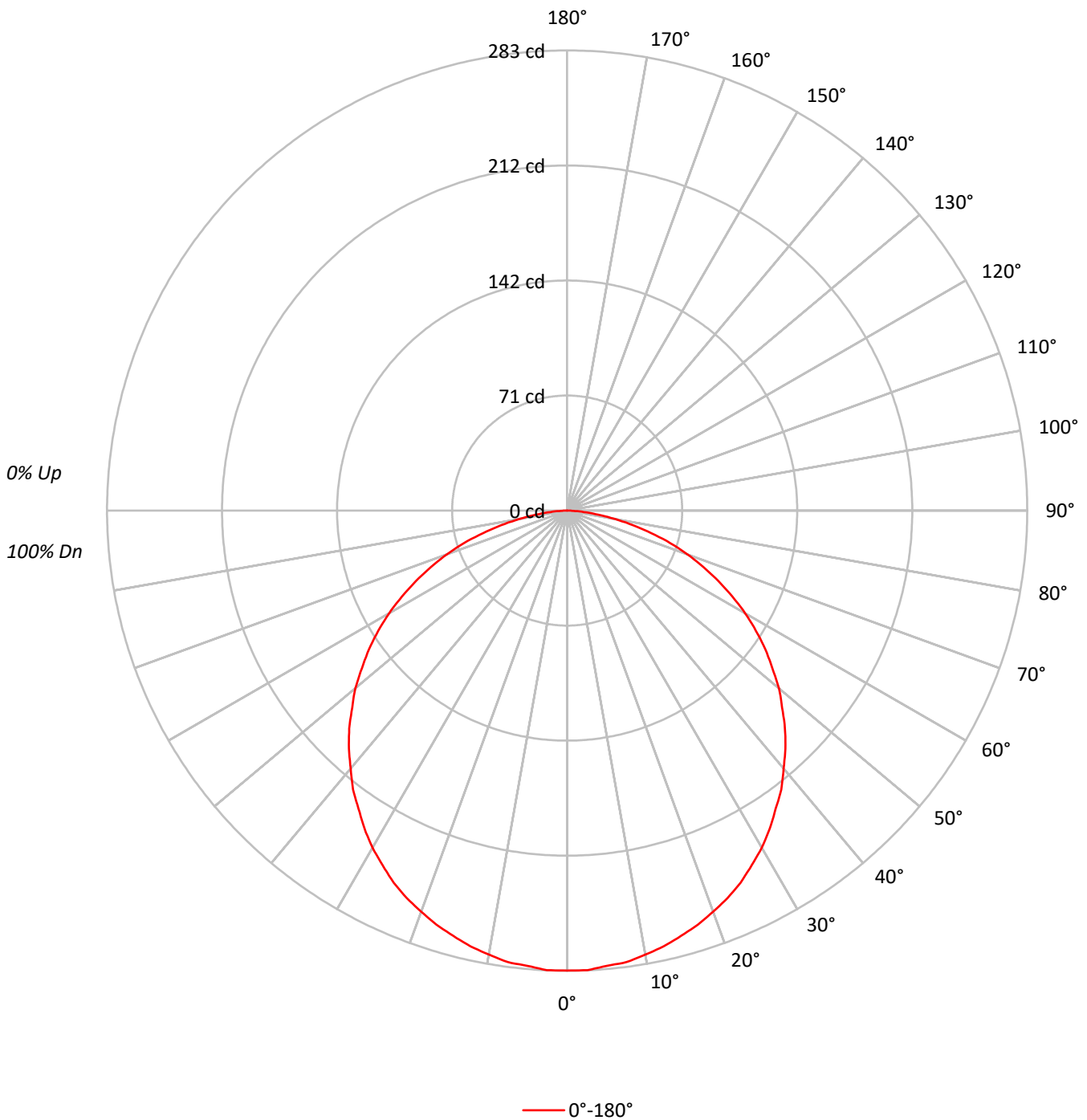
Lumens per Lamp: N/A
Luminaire Lumens: 810.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

Input Watts (W): 11.2
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	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	31	30
9	56	43	34	29	55	42	34	29	41	34	29		40	33	29		39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20256
5°	20197
10°	20161
15°	20074
20°	20002
25°	19941
30°	19793
35°	19554
40°	19358
45°	19189
50°	18948
55°	18575
60°	18130
65°	17383
70°	16455
75°	14828
80°	12205
85°	8380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.7	3.3
10°-20°	76.5	9.4
20°-30°	116.2	14.3
30°-40°	140.2	17.3
40°-50°	146.0	18.0
50°-60°	132.8	16.4
60°-70°	101.5	12.5
70°-80°	56.9	7.0
80°-90°	13.1	1.6
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°	219.5	27.1
0°-40°	359.7	44.4
0°-60°	638.5	78.8
0°-90°	810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	283	
5°	281	27
15°	271	76
25°	252	116
35°	224	140
45°	190	146
55°	149	133
65°	103	102
75°	54	57
85°	10	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	282.9
2.5°	282.9
5°	281.0
7.5°	280.1
10°	277.3
12.5°	274.5
15°	270.8
17.5°	267.1
20°	262.5
22.5°	257.9
25°	252.4
27.5°	245.9
30°	239.4
32.5°	232.0
35°	223.7
37.5°	216.3
40°	207.1
42.5°	198.7
45°	189.5
47.5°	179.3
50°	170.1
52.5°	159.0
55°	148.8
57.5°	137.7
60°	126.6
62.5°	114.6
65°	102.6
67.5°	90.6
70°	78.6
72.5°	66.6
75°	53.6
77.5°	41.6
80°	29.6
82.5°	19.4
85°	10.2
87.5°	3.7
90°	0.0

(END OF REPORT)