

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: P166798

Luminaire Tested: **SLD606830WH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P166798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14660)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SLD606830WH  
Description: HALO 6 INCH SURFACE LED DOWNLIGHT  
Light Source: LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

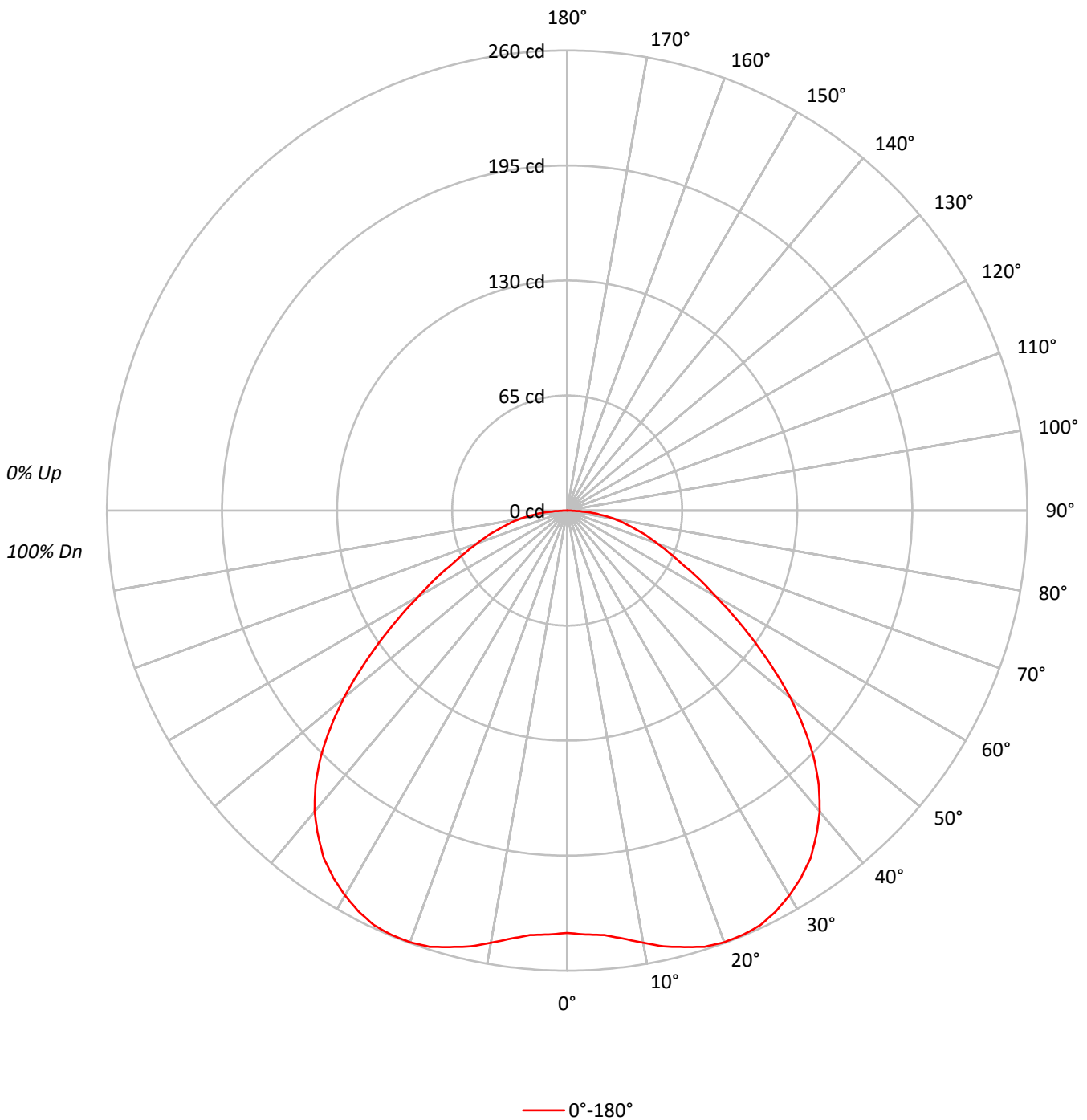
Lumens per Lamp: N/A  
Luminaire Lumens: 759.9 lumens  
Efficiency: N/A  
Efficacy: 62.3 lumens/watt  
Spacing Criteria (0/90/45): 1.5 / 1.5 / 1.51  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.2  
Input Voltage (V): NR  
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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	18835
5°	19074
10°	19879
15°	20865
20°	21800
25°	22507
30°	22889
35°	23100
40°	22877
45°	21993
50°	20227
55°	17782
60°	15299
65°	13430
70°	12510
75°	12078
80°	12320
85°	12228



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.2	3.1
10°-20°	72.4	9.5
20°-30°	118.9	15.6
30°-40°	149.4	19.7
40°-50°	150.8	19.8
50°-60°	115.9	15.3
60°-70°	72.8	9.6
70°-80°	42.3	5.6
80°-90°	14.2	1.9
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°	214.6	28.2
0°-40°	363.9	47.9
0°-60°	630.7	83.0
0°-90°	759.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	759.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	239	
5°	241	23
15°	255	72
25°	258	119
35°	240	149
45°	197	151
55°	129	116
65°	72	73
75°	40	42
85°	14	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	238.6
2.5°	239.7
5°	240.7
7.5°	243.9
10°	248.0
12.5°	252.2
15°	255.3
17.5°	258.4
20°	259.5
22.5°	259.5
25°	258.4
27.5°	255.3
30°	251.1
32.5°	245.9
35°	239.7
37.5°	231.3
40°	222.0
42.5°	210.5
45°	197.0
47.5°	181.3
50°	164.7
52.5°	146.9
55°	129.2
57.5°	112.5
60°	96.9
62.5°	84.4
65°	71.9
67.5°	62.5
70°	54.2
72.5°	46.9
75°	39.6
77.5°	33.3
80°	27.1
82.5°	19.8
85°	13.5
87.5°	5.2
90°	0.0

(END OF REPORT)