

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: P177851

Luminaire Tested: **SLD612840WH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P177851  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26354)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SLD612840WH  
Description: HALO 6 INCH SURFACE LED DOWNLIGHT  
Light Source: LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

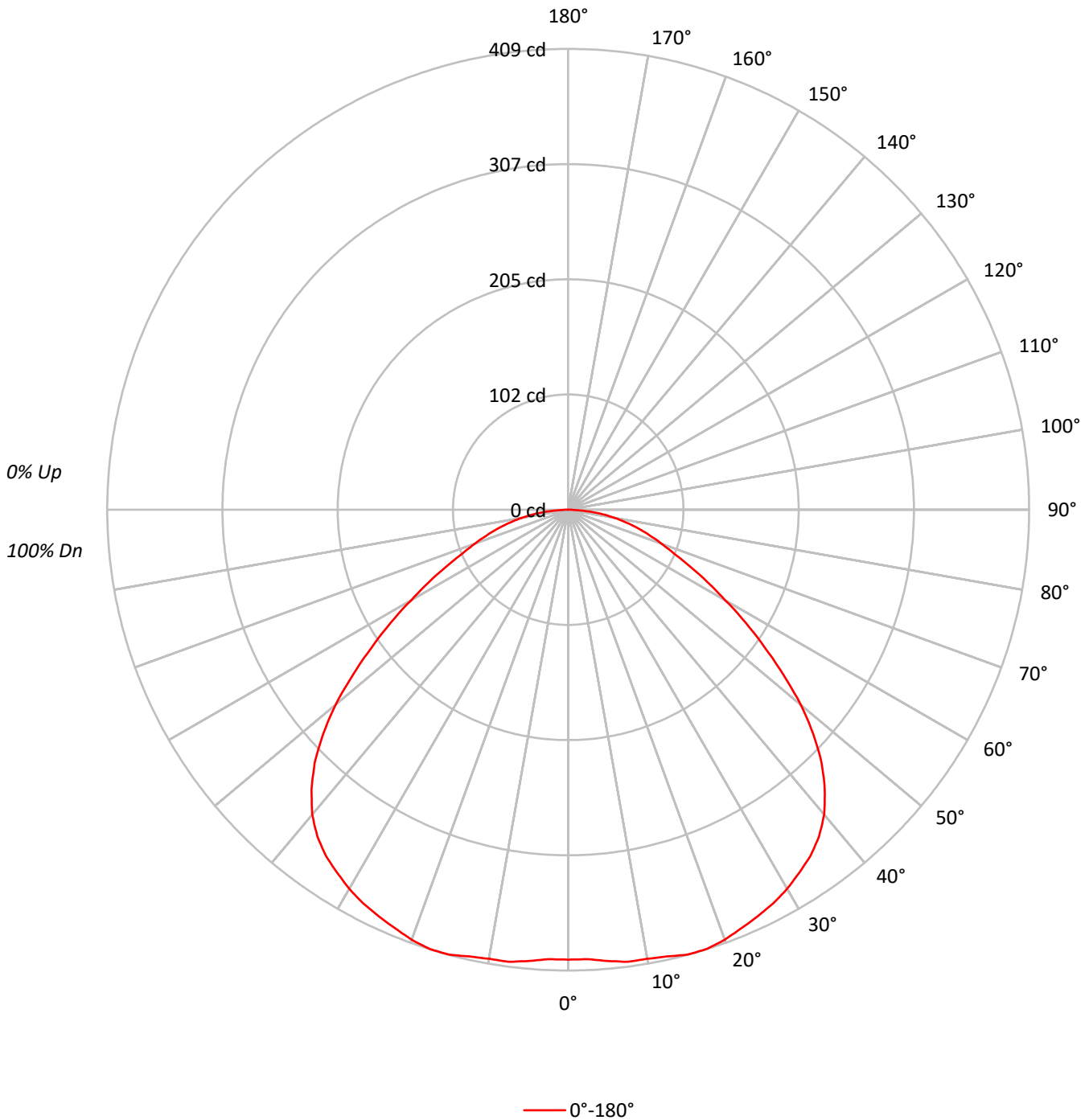
Lumens per Lamp: N/A  
Luminaire Lumens: 1215.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.49  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.8  
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	66	63	60
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	30	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°
0°	31521
5°	31855
10°	32440
15°	33409
20°	34115
25°	34666
30°	35413
35°	36129
40°	36408
45°	35512
50°	33085
55°	29246
60°	25435
65°	22247
70°	20311
75°	19825
80°	19093
85°	17209



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.5	3.2
10°-20°	115.5	9.5
20°-30°	183.9	15.1
30°-40°	234.1	19.3
40°-50°	243.4	20.0
50°-60°	190.9	15.7
60°-70°	119.8	9.9
70°-80°	68.2	5.6
80°-90°	20.8	1.7
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°	337.9	27.8
0°-40°	571.9	47.1
0°-60°	1006.2	82.8
0°-90°	1215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1215.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	399	
5°	402	38
15°	409	115
25°	398	184
35°	375	234
45°	318	243
55°	212	191
65°	119	120
75°	65	68
85°	19	21
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	399.3
2.5°	399.3
5°	402.0
7.5°	404.7
10°	404.7
12.5°	406.1
15°	408.8
17.5°	408.8
20°	406.1
22.5°	402.0
25°	398.0
27.5°	393.9
30°	388.5
32.5°	381.7
35°	374.9
37.5°	365.5
40°	353.3
42.5°	337.0
45°	318.1
47.5°	295.1
50°	269.4
52.5°	240.9
55°	212.5
57.5°	186.8
60°	161.1
62.5°	139.4
65°	119.1
67.5°	101.5
70°	88.0
72.5°	75.8
75°	65.0
77.5°	52.8
80°	42.0
82.5°	31.1
85°	19.0
87.5°	5.4
90°	0.0

(END OF REPORT)