

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: P166800

Luminaire Tested: **SLD606840WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P166800
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: SLD606840WH
Description: HALO 6 INCH SURFACE LED DOWNLIGHT
Light Source: LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

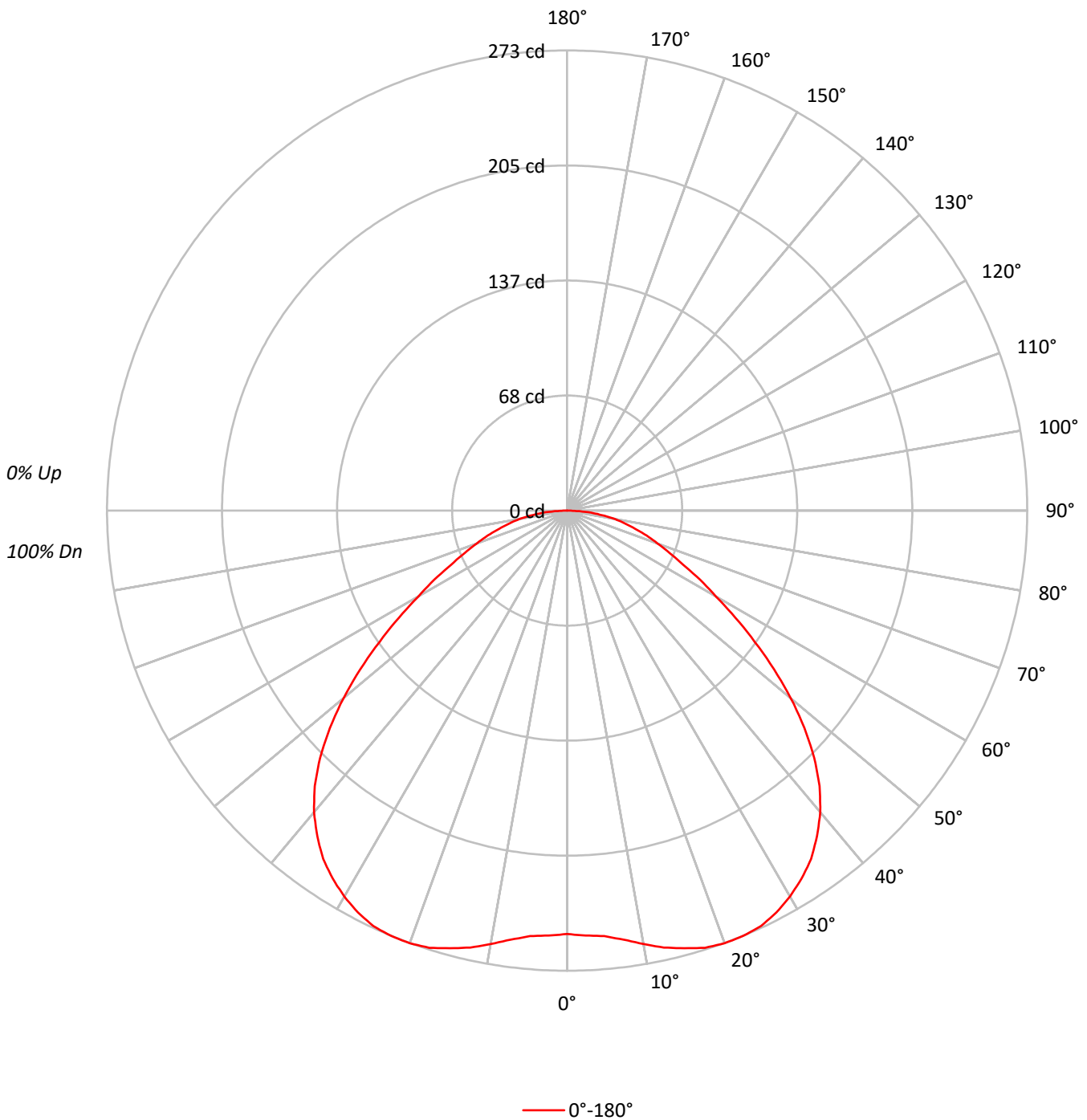
Lumens per Lamp: N/A
Luminaire Lumens: 800.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 1.5 / 1.5 / 1.51
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	100	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°	19830
5°	20080
10°	20929
15°	21968
20°	22942
25°	23692
30°	24101
35°	24314
40°	24072
45°	23143
50°	21283
55°	18718
60°	16104
65°	14140
70°	13156
75°	12719
80°	12956
85°	12952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.4	3.1
10°-20°	76.2	9.5
20°-30°	125.2	15.6
30°-40°	157.3	19.7
40°-50°	158.7	19.8
50°-60°	122.0	15.3
60°-70°	76.6	9.6
70°-80°	44.6	5.6
80°-90°	14.9	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°	225.9	28.2
0°-40°	383.1	47.9
0°-60°	663.9	83.0
0°-90°	800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	800.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	251	
5°	253	24
15°	269	76
25°	272	125
35°	252	157
45°	207	159
55°	136	122
65°	76	77
75°	42	45
85°	14	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	251.2
2.5°	252.3
5°	253.4
7.5°	256.7
10°	261.1
12.5°	265.5
15°	268.8
17.5°	272.0
20°	273.1
22.5°	273.1
25°	272.0
27.5°	268.8
30°	264.4
32.5°	258.9
35°	252.3
37.5°	243.5
40°	233.6
42.5°	221.6
45°	207.3
47.5°	190.9
50°	173.3
52.5°	154.7
55°	136.0
57.5°	118.5
60°	102.0
62.5°	88.9
65°	75.7
67.5°	65.8
70°	57.0
72.5°	49.4
75°	41.7
77.5°	35.1
80°	28.5
82.5°	20.8
85°	14.3
87.5°	5.5
90°	0.0

(END OF REPORT)