

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: P166804

Luminaire Tested: **SLD606940WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P166804
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: SLD606940WH
Description: HALO 6 INCH SURFACE LED DOWNLIGHT
Light Source: LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

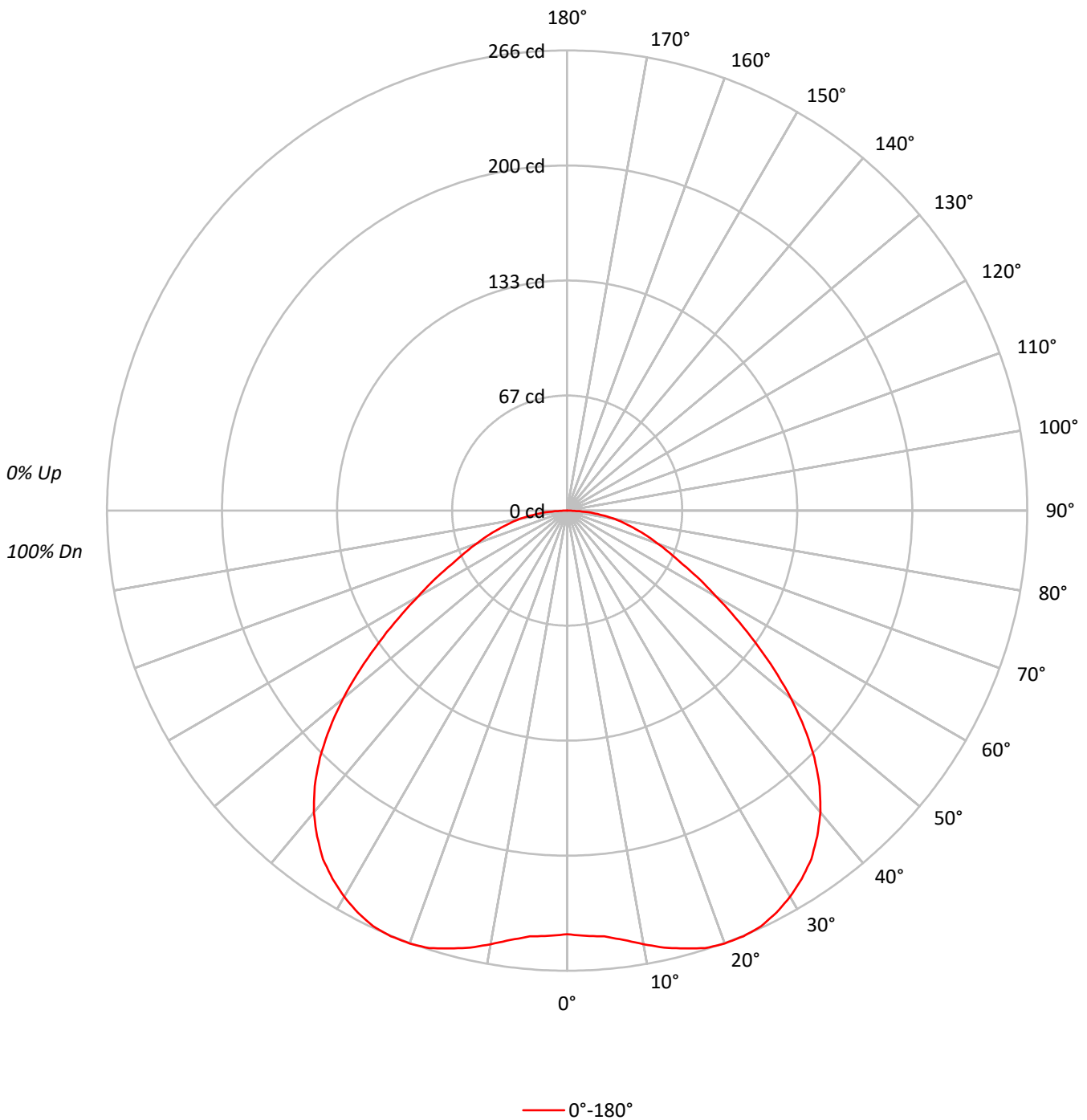
Lumens per Lamp: N/A
Luminaire Lumens: 779.9 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 1.5 / 1.5 / 1.5
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.2
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°	19333
5°	19581
10°	20400
15°	21412
20°	22371
25°	23099
30°	23499
35°	23707
40°	23475
45°	22562
50°	20755
55°	18250
60°	15709
65°	13785
70°	12833
75°	12383
80°	12638
85°	12590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	3.1
10°-20°	74.3	9.5
20°-30°	122.0	15.6
30°-40°	153.3	19.7
40°-50°	154.8	19.8
50°-60°	119.0	15.3
60°-70°	74.7	9.6
70°-80°	43.4	5.6
80°-90°	14.5	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°	220.2	28.2
0°-40°	373.5	47.9
0°-60°	647.3	83.0
0°-90°	779.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	779.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	245	
5°	247	24
15°	262	74
25°	265	122
35°	246	153
45°	202	155
55°	133	119
65°	74	75
75°	41	43
85°	14	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	244.9
2.5°	246.0
5°	247.1
7.5°	250.3
10°	254.5
12.5°	258.8
15°	262.0
17.5°	265.2
20°	266.3
22.5°	266.3
25°	265.2
27.5°	262.0
30°	257.8
32.5°	252.4
35°	246.0
37.5°	237.4
40°	227.8
42.5°	216.0
45°	202.1
47.5°	186.1
50°	169.0
52.5°	150.8
55°	132.6
57.5°	115.5
60°	99.5
62.5°	86.6
65°	73.8
67.5°	64.2
70°	55.6
72.5°	48.1
75°	40.6
77.5°	34.2
80°	27.8
82.5°	20.3
85°	13.9
87.5°	5.3
90°	0.0

(END OF REPORT)