

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: P166797

Luminaire Tested: **SLD606827WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P166797
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: SLD606827WH
Description: HALO 6 INCH SURFACE LED DOWNLIGHT
Light Source: LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

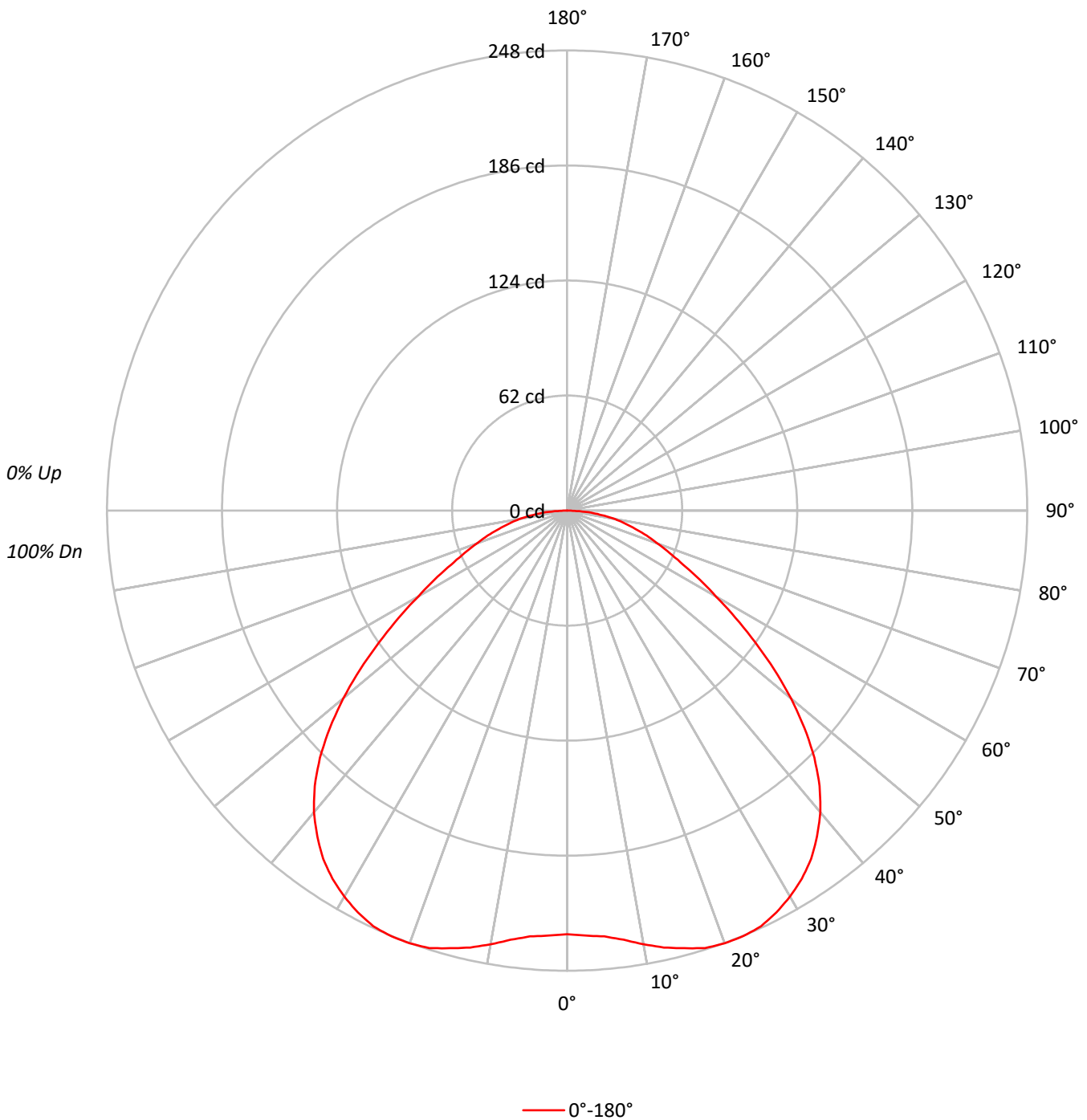
Lumens per Lamp: N/A
Luminaire Lumens: 727.0 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 1.5 / 1.5 / 1.51
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P166797
CATALOG NUMBER: SLD606827WH

Luminous Intensity Polar Plot





TEST NUMBER: P166797

CATALOG NUMBER: SLD606827WH

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°	18022
5°	18250
10°	19022
15°	19957
20°	20851
25°	21532
30°	21895
35°	22097
40°	21878
45°	21033
50°	19343
55°	17011
60°	14636
65°	12851
70°	11956
75°	11560
80°	11774
85°	11775



TEST NUMBER: P166797
 CATALOG NUMBER: SLD606827WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	3.1
10°-20°	69.3	9.5
20°-30°	113.7	15.6
30°-40°	142.9	19.7
40°-50°	144.3	19.8
50°-60°	110.9	15.3
60°-70°	69.6	9.6
70°-80°	40.5	5.6
80°-90°	13.6	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°	205.2	28.2
0°-40°	348.1	47.9
0°-60°	603.3	83.0
0°-90°	727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	228	
5°	230	22
15°	244	69
25°	247	114
35°	229	143
45°	188	144
55°	124	111
65°	69	70
75°	38	41
85°	13	14
90°	0	



TEST NUMBER: P166797

CATALOG NUMBER: SLD606827WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	228.3
2.5°	229.3
5°	230.3
7.5°	233.3
10°	237.3
12.5°	241.2
15°	244.2
17.5°	247.2
20°	248.2
22.5°	248.2
25°	247.2
27.5°	244.2
30°	240.2
32.5°	235.3
35°	229.3
37.5°	221.3
40°	212.3
42.5°	201.4
45°	188.4
47.5°	173.5
50°	157.5
52.5°	140.6
55°	123.6
57.5°	107.7
60°	92.7
62.5°	80.7
65°	68.8
67.5°	59.8
70°	51.8
72.5°	44.9
75°	37.9
77.5°	31.9
80°	25.9
82.5°	18.9
85°	13.0
87.5°	5.0
90°	0.0

(END OF REPORT)