

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: P177848

Luminaire Tested: **SLD612827WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177848
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: SLD612827WH
Description: HALO 6 INCH SURFACE LED DOWNLIGHT
Light Source: LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

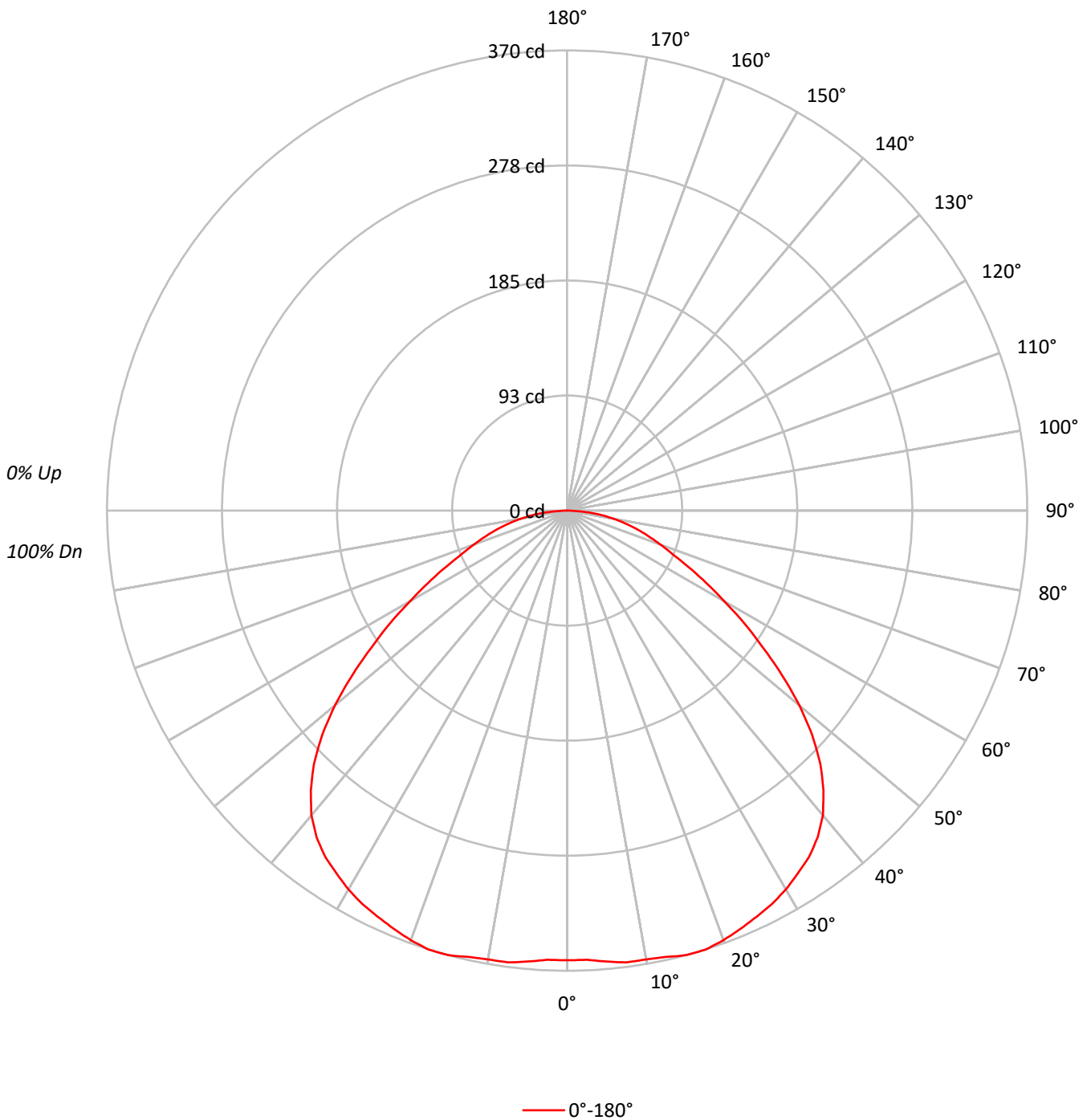
Lumens per Lamp: N/A
Luminaire Lumens: 1100.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.49
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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°	28537
5°	28844
10°	29370
15°	30247
20°	30881
25°	31383
30°	32059
35°	32717
40°	32955
45°	32152
50°	29953
55°	26480
60°	23019
65°	20136
70°	18395
75°	17934
80°	17275
85°	15579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	3.2
10°-20°	104.6	9.5
20°-30°	166.5	15.1
30°-40°	211.9	19.3
40°-50°	220.3	20.0
50°-60°	172.9	15.7
60°-70°	108.4	9.9
70°-80°	61.7	5.6
80°-90°	18.8	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°	305.9	27.8
0°-40°	517.8	47.1
0°-60°	911.0	82.8
0°-90°	1100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	362	
5°	364	35
15°	370	105
25°	360	166
35°	340	212
45°	288	220
55°	192	173
65°	108	108
75°	59	62
85°	17	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	361.5
2.5°	361.5
5°	364.0
7.5°	366.4
10°	366.4
12.5°	367.6
15°	370.1
17.5°	370.1
20°	367.6
22.5°	364.0
25°	360.3
27.5°	356.6
30°	351.7
32.5°	345.6
35°	339.5
37.5°	330.9
40°	319.8
42.5°	305.1
45°	288.0
47.5°	267.1
50°	243.9
52.5°	218.1
55°	192.4
57.5°	169.1
60°	145.8
62.5°	126.2
65°	107.8
67.5°	91.9
70°	79.7
72.5°	68.6
75°	58.8
77.5°	47.8
80°	38.0
82.5°	28.2
85°	17.2
87.5°	4.9
90°	0.0

(END OF REPORT)