

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 COMMERCIAL

Report Number: P210585

Luminaire Tested: **PR8S15D010 - PR8M12WDMMS - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29051)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR8S15D010 - PR8M12WDMMS - 3500K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE METALLIC SILVER FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1457.8 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.39
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

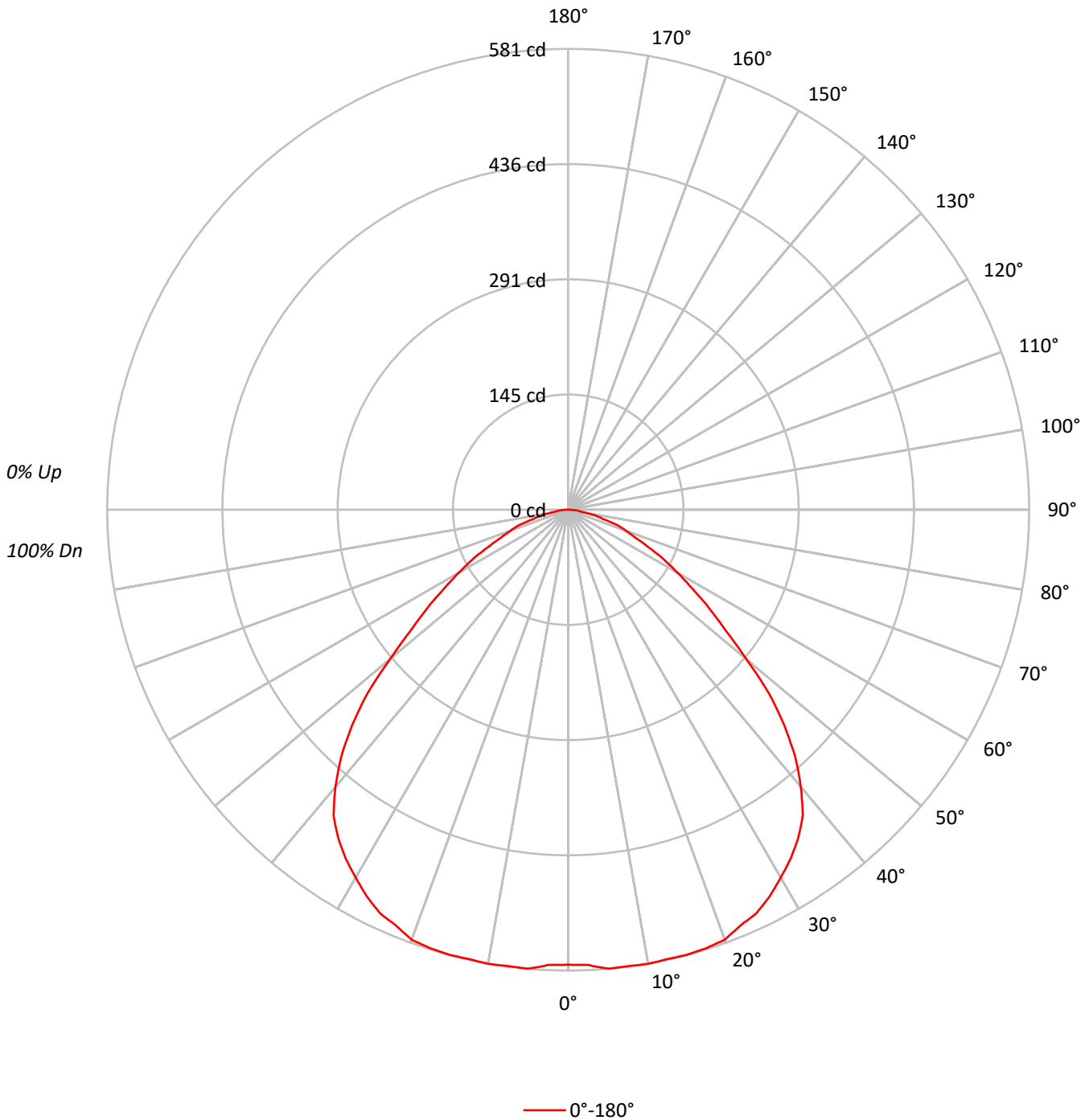
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17688
5°	17984
10°	18202
15°	18538
20°	18928
25°	19101
30°	19071
35°	19025
40°	18364
45°	16816
50°	14051
55°	11682
60°	9818
65°	8114
70°	6978
75°	5469
80°	3782
85°	3998



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.8
10°-20°	164.3	11.3
20°-30°	258.0	17.7
30°-40°	314.5	21.6
40°-50°	294.0	20.2
50°-60°	196.1	13.5
60°-70°	112.8	7.7
70°-80°	52.0	3.6
80°-90°	10.6	0.7
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°	477.7	32.8
0°-40°	792.3	54.3
0°-60°	1282.4	88.0
0°-90°	1457.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1457.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	574	
5°	581	55
15°	581	164
25°	561	258
35°	505	315
45°	386	294
55°	217	196
65°	111	113
75°	46	52
85°	11	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	573.6
2.5°	574.5
5°	581.0
7.5°	580.4
10°	581.3
12.5°	580.1
15°	580.7
17.5°	579.5
20°	576.8
22.5°	567.3
25°	561.4
27.5°	549.6
30°	535.6
32.5°	521.7
35°	505.4
37.5°	485.8
40°	456.2
42.5°	423.9
45°	385.6
47.5°	343.3
50°	292.9
52.5°	250.2
55°	217.3
57.5°	185.9
60°	159.2
62.5°	136.1
65°	111.2
67.5°	91.3
70°	77.4
72.5°	65.8
75°	45.9
77.5°	36.5
80°	21.3
82.5°	13.6
85°	11.3
87.5°	3.3
90°	0.0

(END OF REPORT)