

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: P210555

Luminaire Tested: **PR8S15D010 - PR8M12WDMW - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210555
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 - PR8M12WDMW - 3500K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1517.1 lumens
Efficiency: N/A
Efficacy: 101.1 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

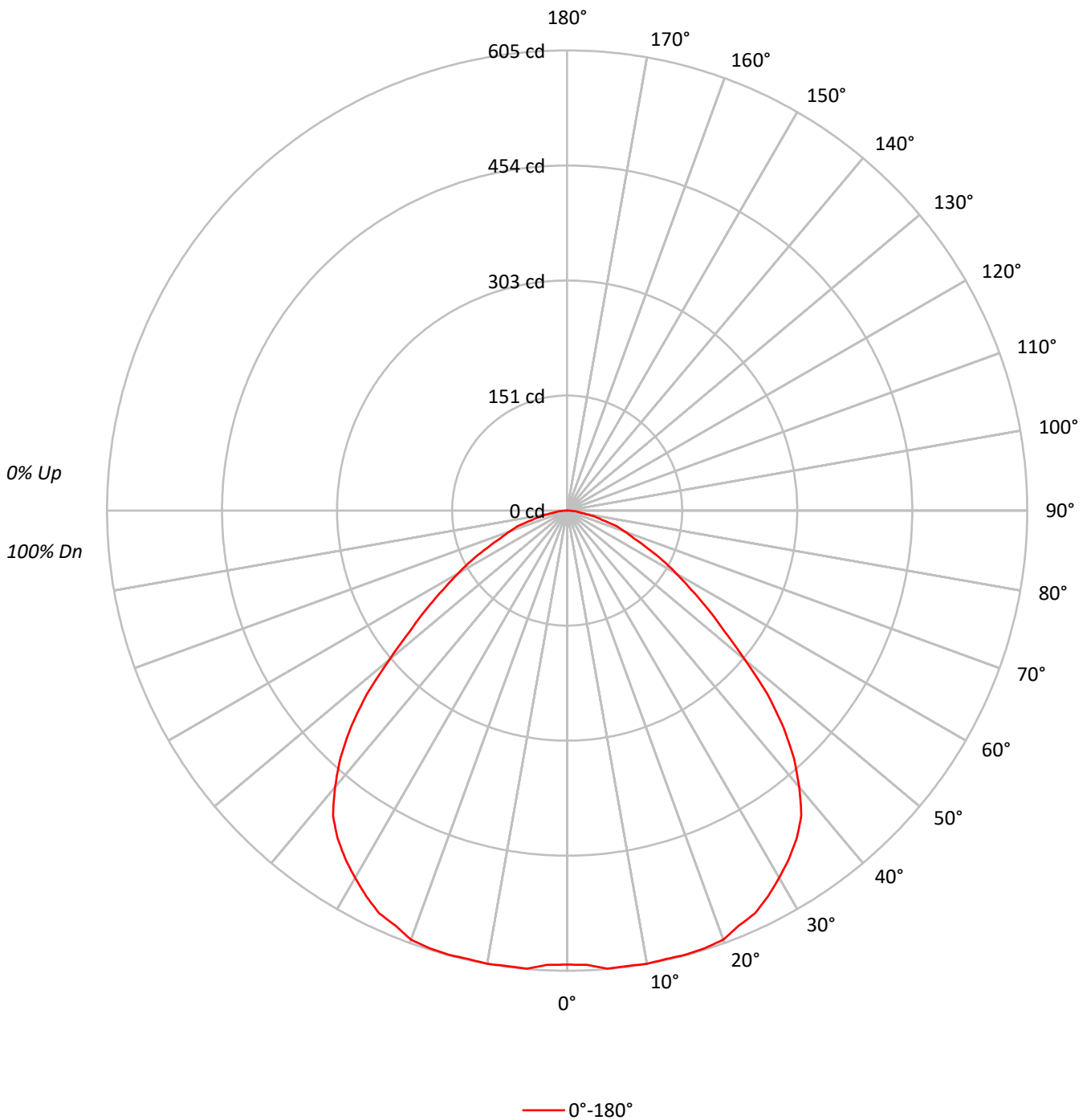
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210555

CATALOG NUMBER: PR8S15D010 - PR8M12WDMW - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P210555

CATALOG NUMBER: PR8S15D010 - PR8M12WDMW - 3500K

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°	18406
5°	18715
10°	18941
15°	19292
20°	19699
25°	19880
30°	19847
35°	19801
40°	19113
45°	17500
50°	14622
55°	12155
60°	10219
65°	8442
70°	7258
75°	5695
80°	3942
85°	4140



TEST NUMBER: P210555

CATALOG NUMBER: PR8S15D010 - PR8M12WDMW - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	3.8
10°-20°	171.0	11.3
20°-30°	268.5	17.7
30°-40°	327.4	21.6
40°-50°	305.9	20.2
50°-60°	204.1	13.5
60°-70°	117.4	7.7
70°-80°	54.1	3.6
80°-90°	11.0	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°	497.1	32.8
0°-40°	824.5	54.3
0°-60°	1334.5	88.0
0°-90°	1517.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1517.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	597	
5°	605	58
15°	604	171
25°	584	269
35°	526	327
45°	401	306
55°	226	204
65°	116	117
75°	48	54
85°	12	11
90°	0	



TEST NUMBER: P210555

CATALOG NUMBER: PR8S15D010 - PR8M12WDMW - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	596.9
2.5°	597.8
5°	604.6
7.5°	604.0
10°	604.9
12.5°	603.7
15°	604.3
17.5°	603.1
20°	600.3
22.5°	590.4
25°	584.3
27.5°	571.9
30°	557.4
32.5°	542.9
35°	526.0
37.5°	505.6
40°	474.8
42.5°	441.1
45°	401.3
47.5°	357.2
50°	304.8
52.5°	260.4
55°	226.1
57.5°	193.4
60°	165.7
62.5°	141.6
65°	115.7
67.5°	95.0
70°	80.5
72.5°	68.5
75°	47.8
77.5°	37.9
80°	22.2
82.5°	14.2
85°	11.7
87.5°	3.4
90°	0.0

(END OF REPORT)