

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: P210549

Luminaire Tested: **PR8S10D010 - PR8M12WDMW - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210549
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: PR8S10D010 - PR8M12WDMW - 3000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 991.4 lumens
Efficiency: N/A
Efficacy: 94.4 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

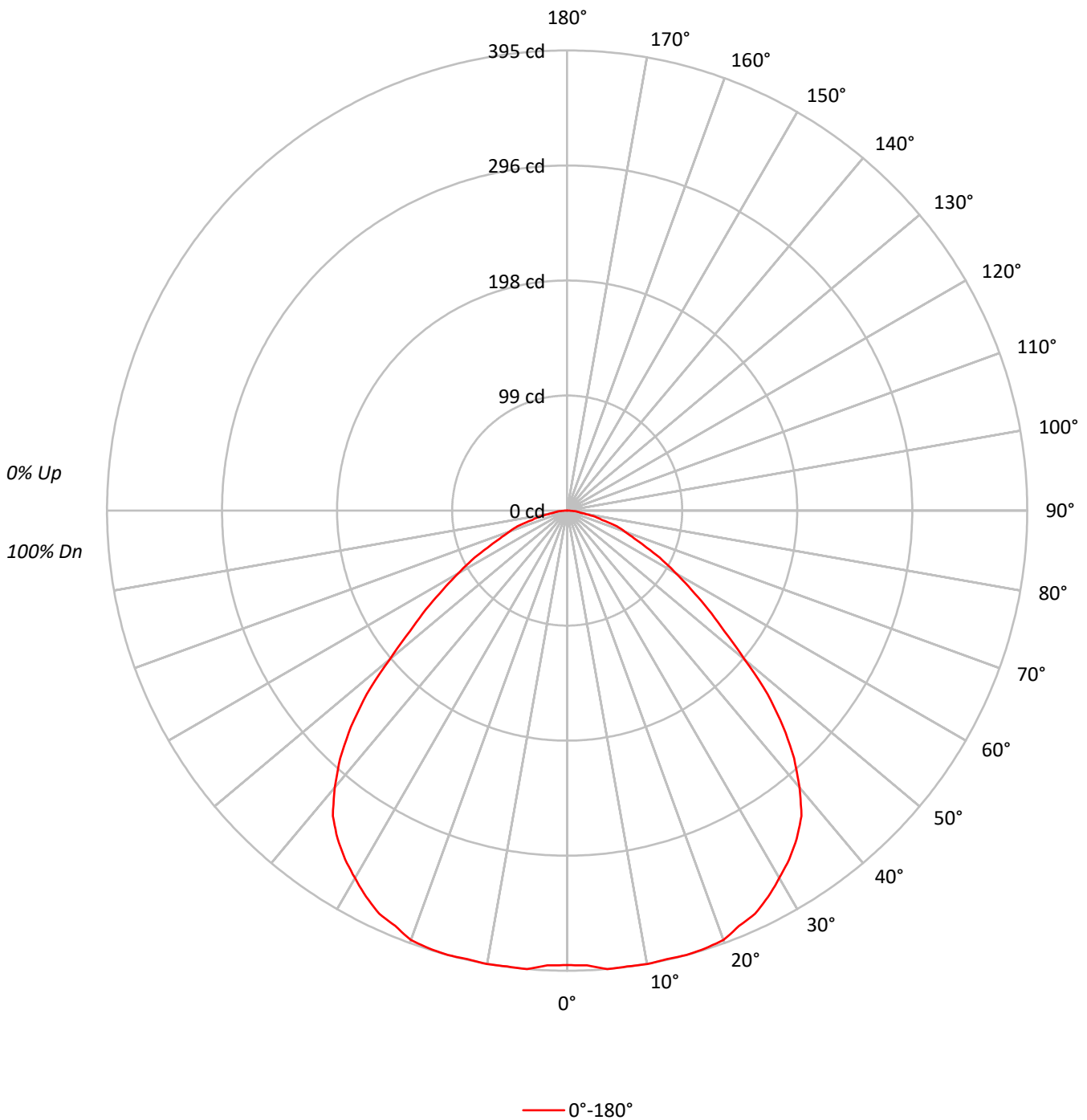
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12029
5°	12230
10°	12378
15°	12607
20°	12873
25°	12990
30°	12972
35°	12938
40°	12487
45°	11439
50°	9556
55°	7946
60°	6673
65°	5516
70°	4742
75°	3717
80°	2575
85°	2724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	3.8
10°-20°	111.7	11.3
20°-30°	175.5	17.7
30°-40°	213.9	21.6
40°-50°	199.9	20.2
50°-60°	133.4	13.5
60°-70°	76.7	7.7
70°-80°	35.4	3.6
80°-90°	7.2	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°	324.9	32.8
0°-40°	538.8	54.3
0°-60°	872.1	88.0
0°-90°	991.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	991.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	390	
5°	395	38
15°	395	112
25°	382	175
35°	344	214
45°	262	200
55°	148	133
65°	76	77
75°	31	35
85°	8	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	390.1
2.5°	390.7
5°	395.1
7.5°	394.7
10°	395.3
12.5°	394.5
15°	394.9
17.5°	394.1
20°	392.3
22.5°	385.8
25°	381.8
27.5°	373.7
30°	364.3
32.5°	354.8
35°	343.7
37.5°	330.4
40°	310.2
42.5°	288.3
45°	262.3
47.5°	233.4
50°	199.2
52.5°	170.1
55°	147.8
57.5°	126.4
60°	108.2
62.5°	92.5
65°	75.6
67.5°	62.1
70°	52.6
72.5°	44.8
75°	31.2
77.5°	24.8
80°	14.5
82.5°	9.3
85°	7.7
87.5°	2.2
90°	0.0

(END OF REPORT)