

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: P210161

Luminaire Tested: **PR810D010 - PR8M12WDMW - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210161
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: PR810D010 - PR8M12WDMW - 4000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1240.4 lumens
Efficiency: N/A
Efficacy: 118.1 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

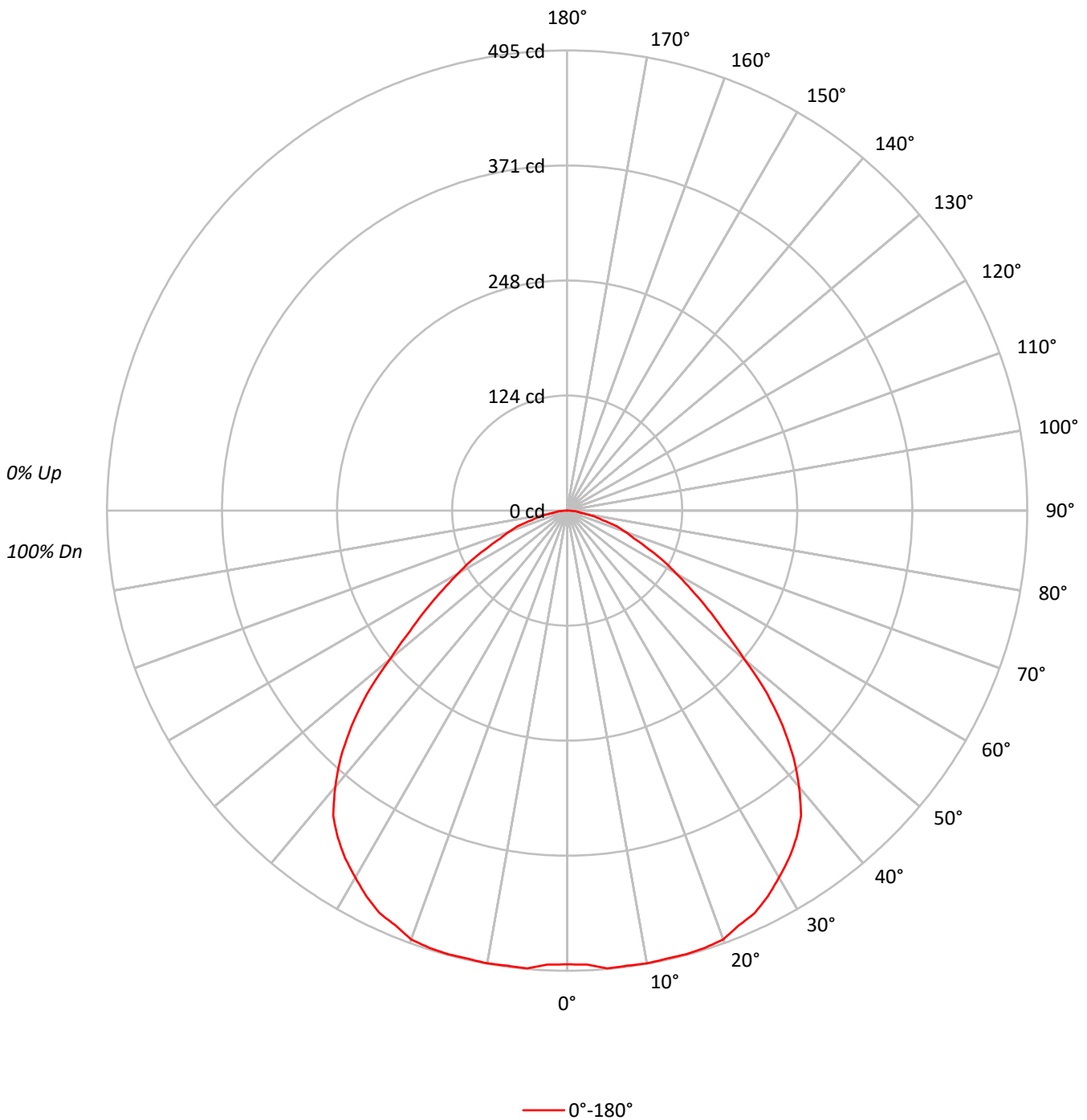
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210161

CATALOG NUMBER: PR810D010 - PR8M12WDMW - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P210161

CATALOG NUMBER: PR810D010 - PR8M12WDMW - 4000K

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°	15048
5°	15304
10°	15487
15°	15774
20°	16106
25°	16253
30°	16230
35°	16187
40°	15627
45°	14308
50°	11955
55°	9940
60°	8350
65°	6902
70°	5932
75°	4658
80°	3232
85°	3397



TEST NUMBER: P210161

CATALOG NUMBER: PR810D010 - PR8M12WDMW - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	3.8
10°-20°	139.8	11.3
20°-30°	219.6	17.7
30°-40°	267.7	21.6
40°-50°	250.2	20.2
50°-60°	166.9	13.5
60°-70°	96.0	7.7
70°-80°	44.3	3.6
80°-90°	9.0	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°	406.5	32.8
0°-40°	674.1	54.3
0°-60°	1091.1	88.0
0°-90°	1240.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	488	
5°	494	47
15°	494	140
25°	478	220
35°	430	268
45°	328	250
55°	185	167
65°	95	96
75°	39	44
85°	10	9
90°	0	



TEST NUMBER: P210161

CATALOG NUMBER: PR810D010 - PR8M12WDMW - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	488.0
2.5°	488.8
5°	494.4
7.5°	493.8
10°	494.6
12.5°	493.6
15°	494.1
17.5°	493.1
20°	490.8
22.5°	482.8
25°	477.7
27.5°	467.6
30°	455.8
32.5°	443.9
35°	430.0
37.5°	413.4
40°	388.2
42.5°	360.7
45°	328.1
47.5°	292.1
50°	249.2
52.5°	212.9
55°	184.9
57.5°	158.1
60°	135.4
62.5°	115.8
65°	94.6
67.5°	77.7
70°	65.8
72.5°	56.0
75°	39.1
77.5°	31.0
80°	18.2
82.5°	11.6
85°	9.6
87.5°	2.8
90°	0.0

(END OF REPORT)