

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: P210610

Luminaire Tested: **PR8S30D010 - PR8M34MDMW - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29049)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR8S30D010 - PR8M34MDMW - 3500K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM 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: 3069.8 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

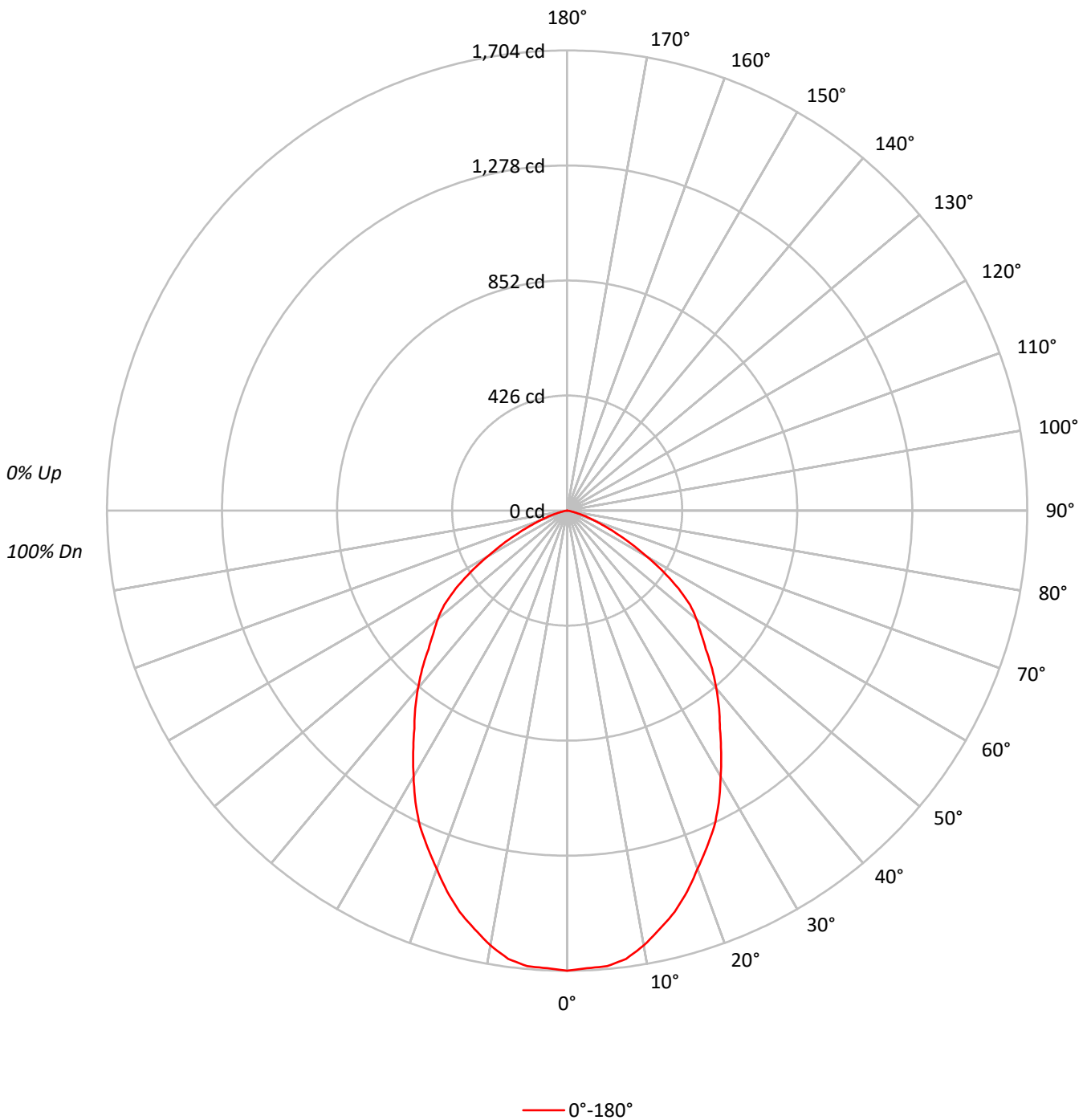
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210610

CATALOG NUMBER: PR8S30D010 - PR8M34MDMW - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P210610

CATALOG NUMBER: PR8S30D010 - PR8M34MDMW - 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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	96	91	86	100	94	89	85	91	87	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50		60	54	49		58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52542
5°	52421
10°	51195
15°	49115
20°	46325
25°	43884
30°	40503
35°	37140
40°	34586
45°	31669
50°	30012
55°	27042
60°	21117
65°	14878
70°	9377
75°	5254
80°	1474
85°	0



TEST NUMBER: P210610

CATALOG NUMBER: PR8S30D010 - PR8M34MDMW - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	5.2
10°-20°	431.0	14.0
20°-30°	590.2	19.2
30°-40°	620.1	20.2
40°-50°	565.5	18.4
50°-60°	442.6	14.4
60°-70°	207.9	6.8
70°-80°	51.3	1.7
80°-90°	1.3	0.0
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°	1181.1	38.5
0°-40°	1801.1	58.7
0°-60°	2809.3	91.5
0°-90°	3069.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3069.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1704	
5°	1694	160
15°	1538	431
25°	1290	590
35°	987	620
45°	726	566
55°	503	443
65°	204	208
75°	44	51
85°	0	1
90°	0	



TEST NUMBER: P210610

CATALOG NUMBER: PR8S30D010 - PR8M34MDMW - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1703.9
2.5°	1696.3
5°	1693.5
7.5°	1674.2
10°	1635.0
12.5°	1586.7
15°	1538.5
17.5°	1478.6
20°	1411.7
22.5°	1350.4
25°	1289.8
27.5°	1217.4
30°	1137.5
32.5°	1061.0
35°	986.6
37.5°	923.9
40°	859.2
42.5°	794.4
45°	726.2
47.5°	671.1
50°	625.6
52.5°	573.9
55°	503.0
57.5°	423.7
60°	342.4
62.5°	269.4
65°	203.9
67.5°	147.4
70°	104.0
72.5°	71.0
75°	44.1
77.5°	24.1
80°	8.3
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)