

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: P210620

Luminaire Tested: **PR8S30D010 - PR8M34MDMB - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210620  
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 - PR8M34MDMB - 3500K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2783.6 lumens  
Efficiency: N/A  
Efficacy: 97.7 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

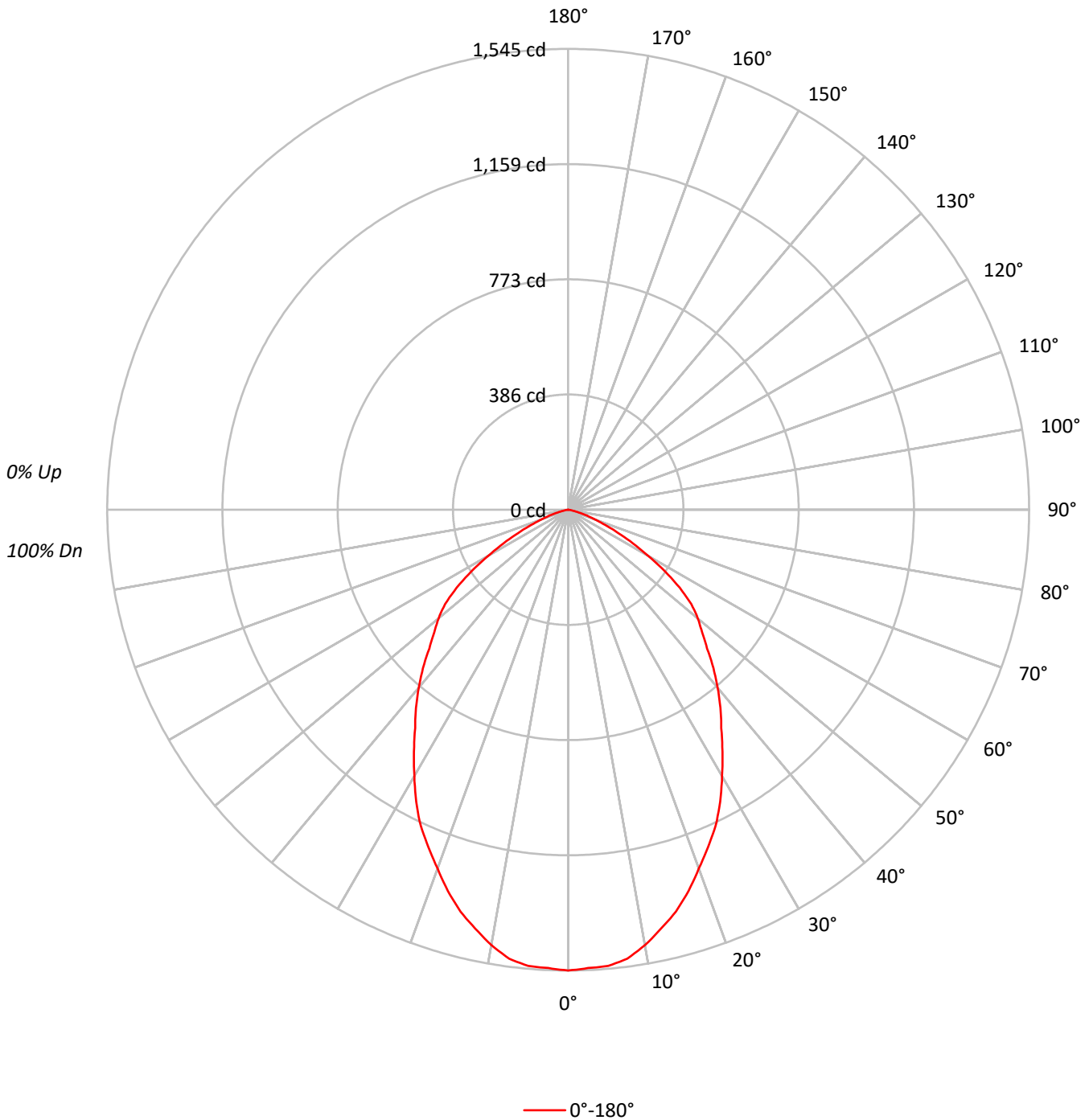
Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P210620

CATALOG NUMBER: PR8S30D010 - PR8M34MDMB - 3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P210620

CATALOG NUMBER: PR8S30D010 - PR8M34MDMB - 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°	47642
5°	47533
10°	46420
15°	44534
20°	42007
25°	39791
30°	36725
35°	33676
40°	31358
45°	28717
50°	27215
55°	24521
60°	19149
65°	13491
70°	8502
75°	4766
80°	1332
85°	0



TEST NUMBER: P210620

CATALOG NUMBER: PR8S30D010 - PR8M34MDMB - 3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.9	5.2
10°-20°	390.8	14.0
20°-30°	535.2	19.2
30°-40°	562.3	20.2
40°-50°	512.8	18.4
50°-60°	401.4	14.4
60°-70°	188.5	6.8
70°-80°	46.5	1.7
80°-90°	1.2	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°	1070.9	38.5
0°-40°	1633.2	58.7
0°-60°	2547.4	91.5
0°-90°	2783.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2783.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1545	
5°	1536	145
15°	1395	391
25°	1170	535
35°	895	562
45°	658	513
55°	456	401
65°	185	189
75°	40	47
85°	0	1
90°	0	



TEST NUMBER: P210620

CATALOG NUMBER: PR8S30D010 - PR8M34MDMB - 3500K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1545.0
2.5°	1538.1
5°	1535.6
7.5°	1518.1
10°	1482.5
12.5°	1438.8
15°	1395.0
17.5°	1340.7
20°	1280.1
22.5°	1224.5
25°	1169.5
27.5°	1103.9
30°	1031.4
32.5°	962.1
35°	894.6
37.5°	837.8
40°	779.0
42.5°	720.3
45°	658.5
47.5°	608.5
50°	567.3
52.5°	520.4
55°	456.1
57.5°	384.2
60°	310.5
62.5°	244.3
65°	184.9
67.5°	133.7
70°	94.3
72.5°	64.3
75°	40.0
77.5°	21.9
80°	7.5
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)