

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: P210304

Luminaire Tested: **PR840D010 - PR8M34MDMMS - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210304  
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: PR840D010 - PR8M34MDMMS - 3500K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE METALLIC SILVER FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4766.7 lumens  
Efficiency: N/A  
Efficacy: 109.6 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

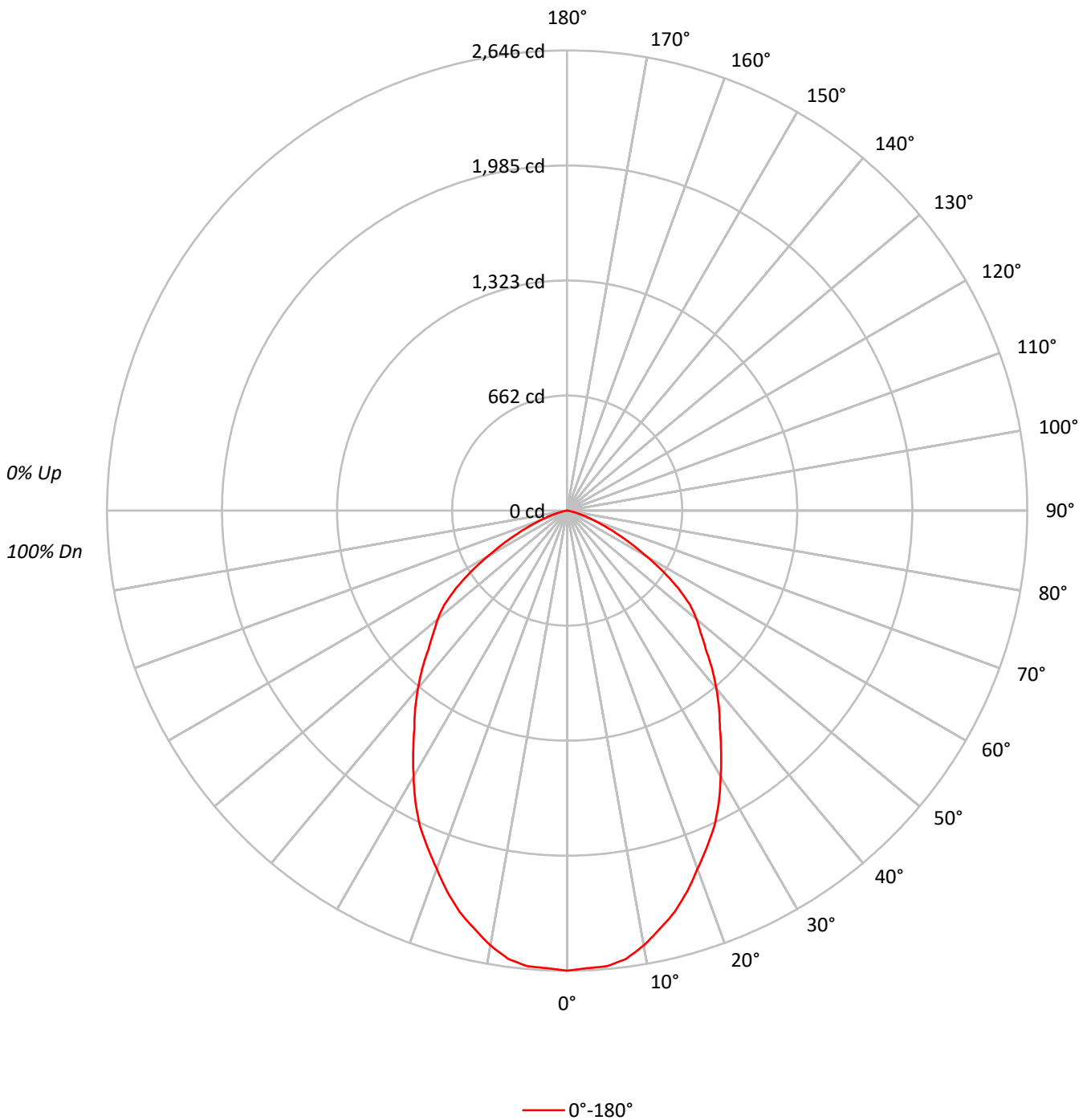
Input Watts (W): 43.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P210304

CATALOG NUMBER: PR840D010 - PR8M34MDMMS - 3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P210304

CATALOG NUMBER: PR840D010 - PR8M34MDMMS - 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°	81584
5°	81397
10°	79492
15°	76263
20°	71934
25°	68140
30°	62892
35°	57671
40°	53703
45°	49174
50°	46601
55°	41988
60°	32791
65°	23108
70°	14561
75°	8161
80°	2273
85°	0



TEST NUMBER: P210304

CATALOG NUMBER: PR840D010 - PR8M34MDMMS - 3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.1	5.2
10°-20°	669.3	14.0
20°-30°	916.5	19.2
30°-40°	962.8	20.2
40°-50°	878.1	18.4
50°-60°	687.3	14.4
60°-70°	322.8	6.8
70°-80°	79.6	1.7
80°-90°	2.0	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°	1833.9	38.5
0°-40°	2796.7	58.7
0°-60°	4362.2	91.5
0°-90°	4766.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2646	
5°	2630	248
15°	2389	669
25°	2003	916
35°	1532	963
45°	1128	878
55°	781	687
65°	317	323
75°	68	80
85°	0	2
90°	0	



TEST NUMBER: P210304

CATALOG NUMBER: PR840D010 - PR8M34MDMMS - 3500K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2645.7
2.5°	2633.9
5°	2629.6
7.5°	2599.7
10°	2538.7
12.5°	2463.8
15°	2388.9
17.5°	2295.8
20°	2192.1
22.5°	2096.9
25°	2002.7
27.5°	1890.4
30°	1766.3
32.5°	1647.5
35°	1532.0
37.5°	1434.6
40°	1334.1
42.5°	1233.5
45°	1127.6
47.5°	1042.0
50°	971.4
52.5°	891.2
55°	781.0
57.5°	657.9
60°	531.7
62.5°	418.3
65°	316.7
67.5°	228.9
70°	161.5
72.5°	110.2
75°	68.5
77.5°	37.4
80°	12.8
82.5°	1.1
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)