

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: P210626

Luminaire Tested: **PR8S40D010 - PR8M34MDMB - 4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210626  
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: PR8S40D010 - PR8M34MDMB - 4000K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3537.7 lumens  
Efficiency: N/A  
Efficacy: 81.3 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

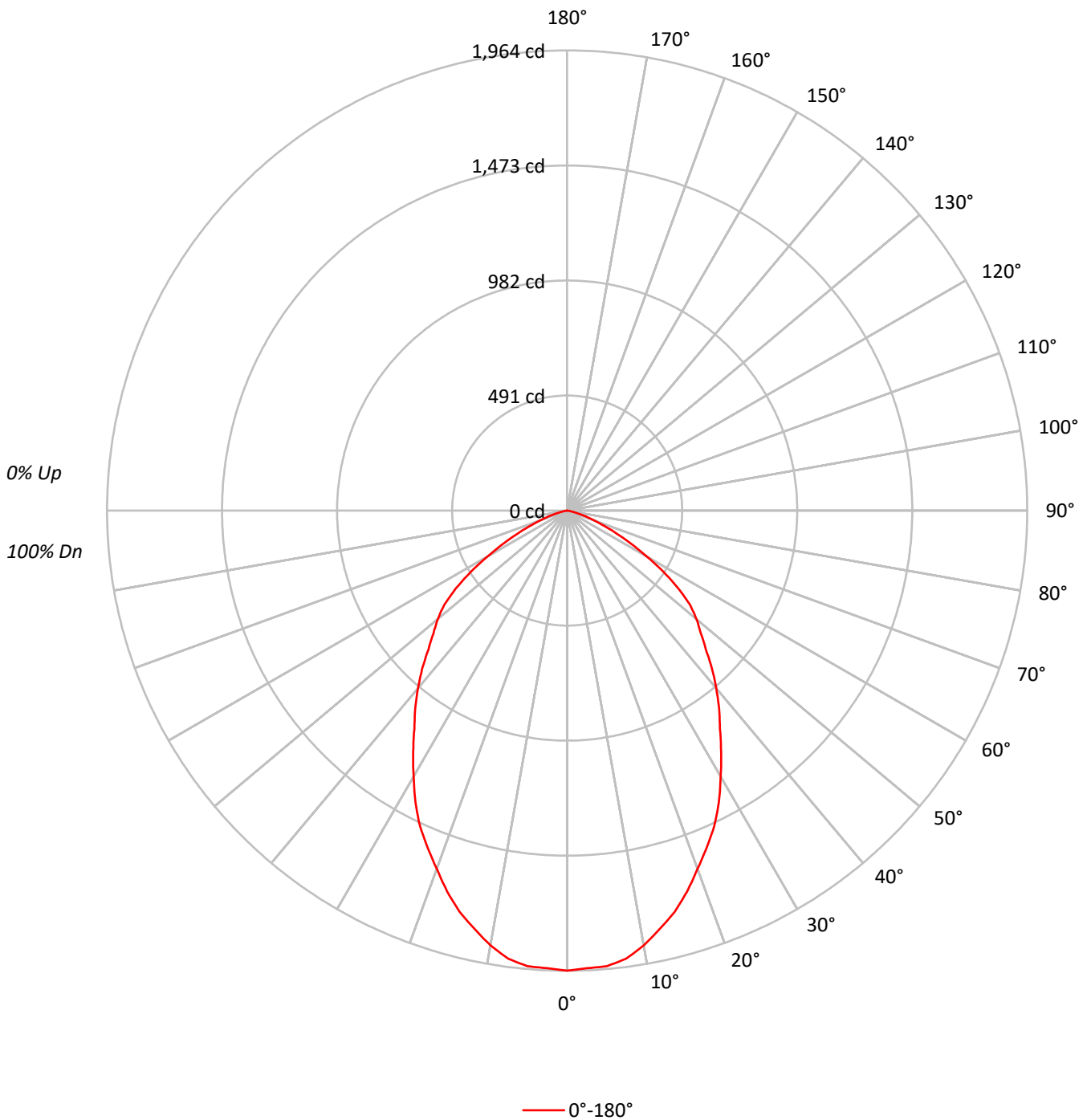
Input Watts (W): 43.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P210626

CATALOG NUMBER: PR8S40D010 - PR8M34MDMB - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P210626

CATALOG NUMBER: PR8S40D010 - PR8M34MDMB - 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	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°	60547
5°	60410
10°	58995
15°	56601
20°	53387
25°	50570
30°	46677
35°	42801
40°	39855
45°	36496
50°	34584
55°	31160
60°	24336
65°	17147
70°	10810
75°	6052
80°	1687
85°	0



TEST NUMBER: P210626

CATALOG NUMBER: PR8S40D010 - PR8M34MDMB - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.2	5.2
10°-20°	496.7	14.0
20°-30°	680.2	19.2
30°-40°	714.6	20.2
40°-50°	651.7	18.4
50°-60°	510.1	14.4
60°-70°	239.6	6.8
70°-80°	59.1	1.7
80°-90°	1.5	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°	1361.1	38.5
0°-40°	2075.6	58.7
0°-60°	3237.5	91.5
0°-90°	3537.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3537.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1964	
5°	1952	184
15°	1773	497
25°	1486	680
35°	1137	715
45°	837	652
55°	580	510
65°	235	240
75°	51	59
85°	0	2
90°	0	



TEST NUMBER: P210626

CATALOG NUMBER: PR8S40D010 - PR8M34MDMB - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1963.5
2.5°	1954.8
5°	1951.6
7.5°	1929.4
10°	1884.1
12.5°	1828.6
15°	1773.0
17.5°	1703.9
20°	1626.9
22.5°	1556.2
25°	1486.3
27.5°	1403.0
30°	1310.9
32.5°	1222.7
35°	1137.0
37.5°	1064.7
40°	990.1
42.5°	915.5
45°	836.9
47.5°	773.3
50°	720.9
52.5°	661.4
55°	579.6
57.5°	488.3
60°	394.6
62.5°	310.4
65°	235.0
67.5°	169.9
70°	119.9
72.5°	81.8
75°	50.8
77.5°	27.8
80°	9.5
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)