

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: P210624

Luminaire Tested: **PR8S40D010 - PR8M34MDMB - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210624  
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 - 3000K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3371.2 lumens  
Efficiency: N/A  
Efficacy: 77.5 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

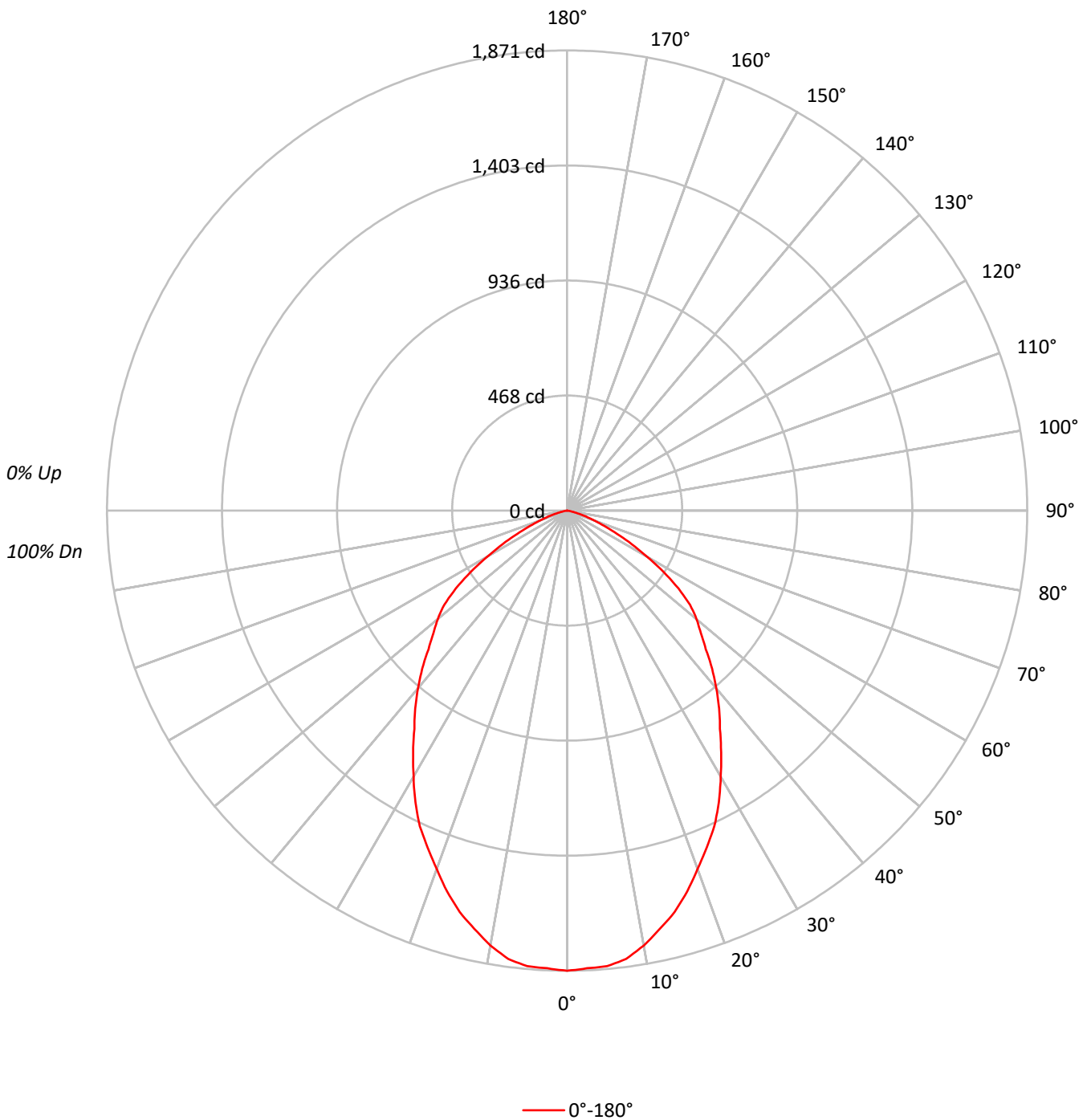
Input Watts (W): 43.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	57698
5°	57565
10°	56218
15°	53936
20°	50874
25°	48192
30°	44480
35°	40787
40°	37980
45°	34778
50°	32957
55°	29692
60°	23189
65°	16344
70°	10296
75°	5766
80°	1616
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	5.2
10°-20°	473.3	14.0
20°-30°	648.1	19.2
30°-40°	681.0	20.2
40°-50°	621.1	18.4
50°-60°	486.1	14.4
60°-70°	228.3	6.8
70°-80°	56.3	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°	1297.0	38.5
0°-40°	1977.9	58.7
0°-60°	3085.1	91.5
0°-90°	3371.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3371.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1871	
5°	1860	175
15°	1690	473
25°	1416	648
35°	1084	681
45°	798	621
55°	552	486
65°	224	228
75°	48	56
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1871.1
2.5°	1862.8
5°	1859.7
7.5°	1838.5
10°	1795.4
12.5°	1742.5
15°	1689.5
17.5°	1623.7
20°	1550.3
22.5°	1482.9
25°	1416.4
27.5°	1336.9
30°	1249.2
32.5°	1165.2
35°	1083.5
37.5°	1014.6
40°	943.5
42.5°	872.4
45°	797.5
47.5°	736.9
50°	687.0
52.5°	630.3
55°	552.3
57.5°	465.3
60°	376.0
62.5°	295.8
65°	224.0
67.5°	161.9
70°	114.2
72.5°	77.9
75°	48.4
77.5°	26.5
80°	9.1
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)