

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: P210446

Luminaire Tested: **PR8R40D010 - PR8M34MDMMS - 4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210446  
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: PR8R40D010 - PR8M34MDMMS - 4000K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE METALLIC SILVER FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4433.3 lumens  
Efficiency: N/A  
Efficacy: 101.9 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

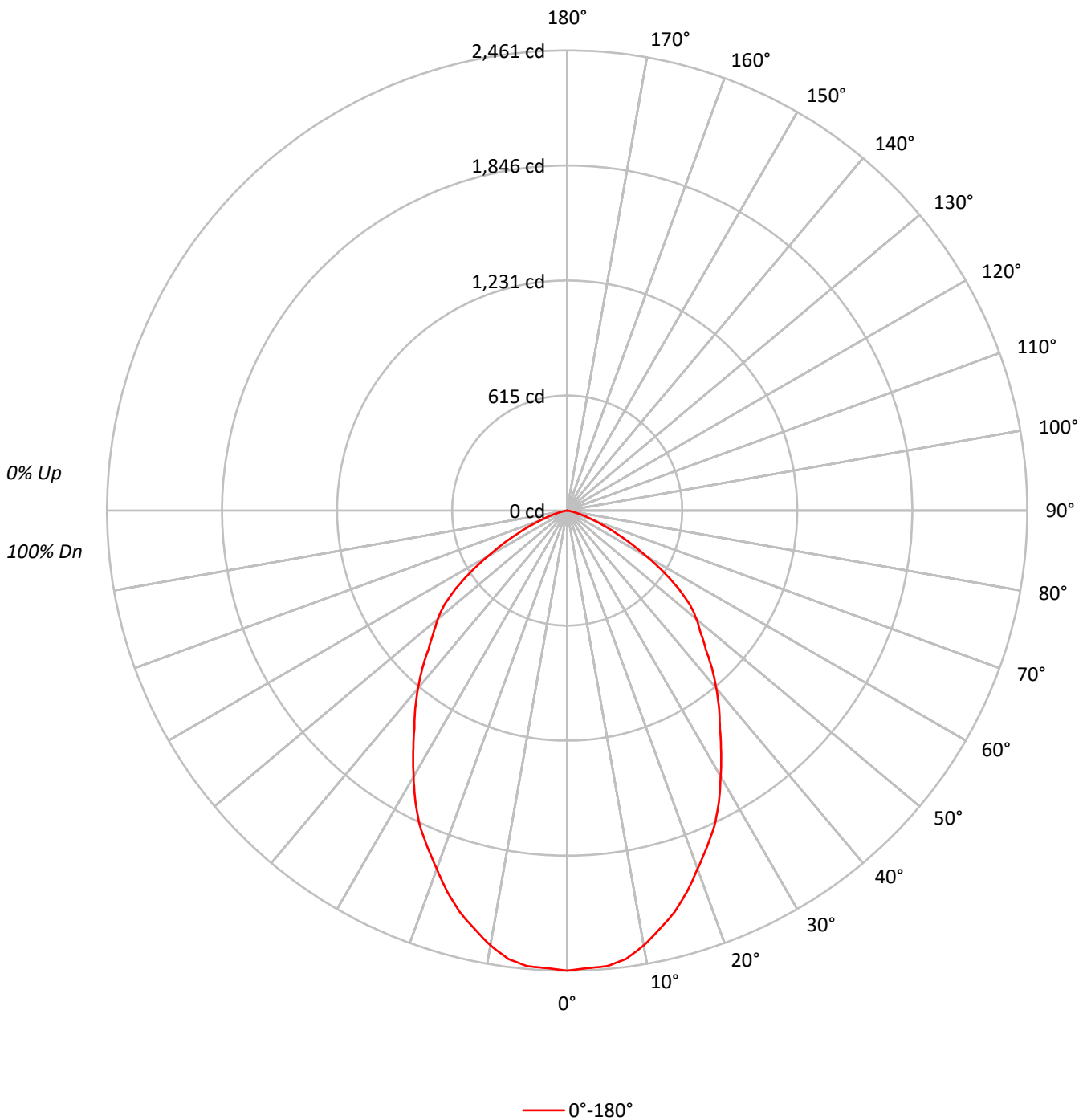
Input Watts (W): 43.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	75879
5°	75704
10°	73934
15°	70929
20°	66904
25°	63377
30°	58495
35°	53635
40°	49947
45°	45733
50°	43343
55°	39052
60°	30497
65°	21488
70°	13542
75°	7589
80°	2113
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.8	5.2
10°-20°	622.5	14.0
20°-30°	852.4	19.2
30°-40°	895.5	20.2
40°-50°	816.7	18.4
50°-60°	639.3	14.4
60°-70°	300.2	6.8
70°-80°	74.1	1.7
80°-90°	1.9	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°	1705.7	38.5
0°-40°	2601.2	58.7
0°-60°	4057.1	91.5
0°-90°	4433.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4433.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2461	
5°	2446	231
15°	2222	622
25°	1863	852
35°	1425	896
45°	1049	817
55°	726	639
65°	294	300
75°	64	74
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2460.7
2.5°	2449.7
5°	2445.7
7.5°	2417.9
10°	2361.2
12.5°	2291.5
15°	2221.8
17.5°	2135.3
20°	2038.8
22.5°	1950.2
25°	1862.7
27.5°	1758.2
30°	1642.8
32.5°	1532.3
35°	1424.8
37.5°	1334.3
40°	1240.8
42.5°	1147.2
45°	1048.7
47.5°	969.1
50°	903.5
52.5°	828.8
55°	726.4
57.5°	611.9
60°	494.5
62.5°	389.0
65°	294.5
67.5°	212.9
70°	150.2
72.5°	102.5
75°	63.7
77.5°	34.8
80°	11.9
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)