

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: P210436

Luminaire Tested: **PR8R40D010 - PR8M34MDMB - 4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210436  
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 - 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: 4183.6 lumens  
Efficiency: N/A  
Efficacy: 96.2 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

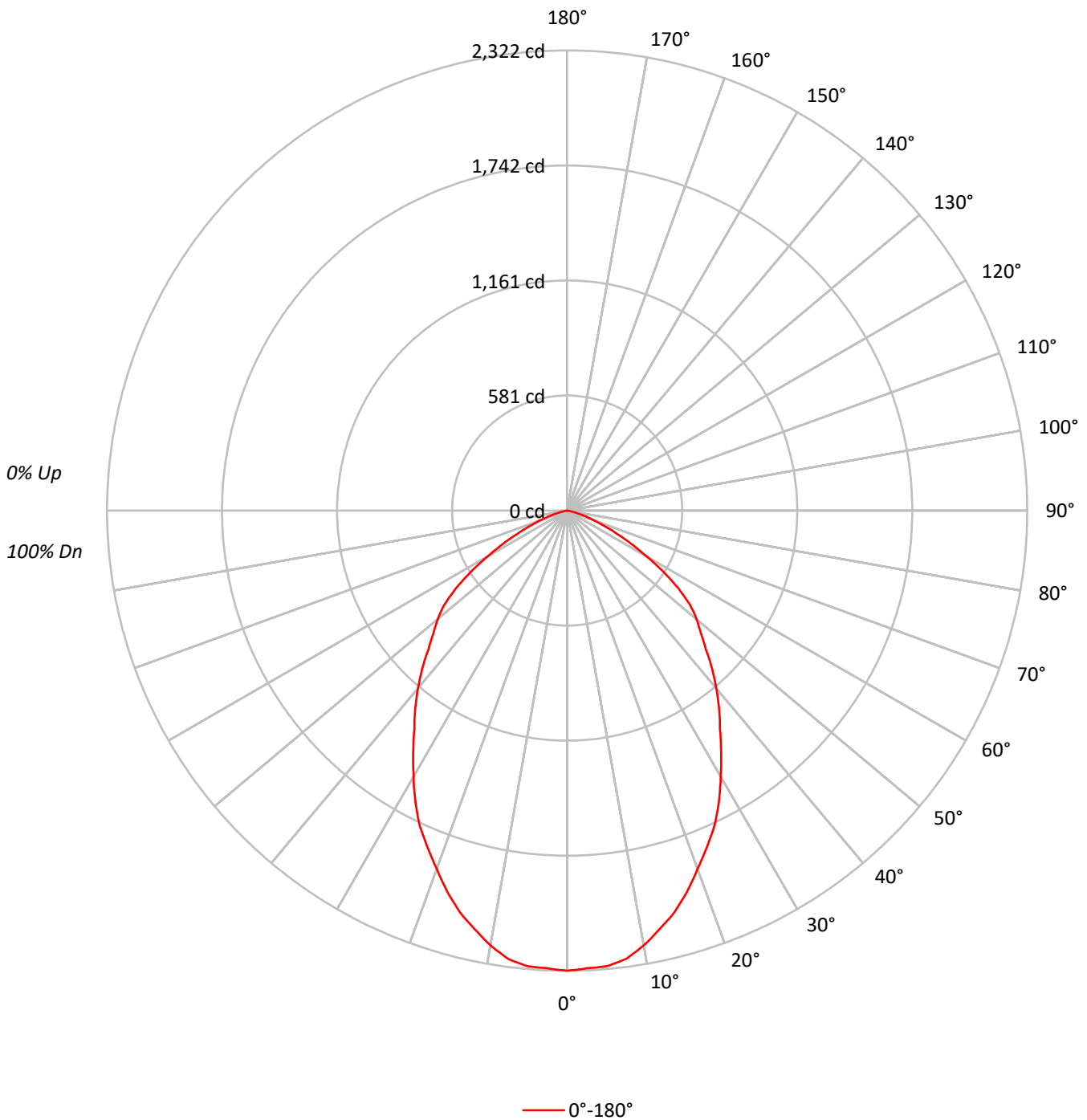
Input Watts (W): 43.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	71602
5°	71442
10°	69766
15°	66935
20°	63133
25°	59804
30°	55198
35°	50616
40°	47133
45°	43160
50°	40902
55°	36848
60°	28783
65°	20277
70°	12785
75°	7160
80°	2007
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.8	5.2
10°-20°	587.4	14.0
20°-30°	804.3	19.2
30°-40°	845.1	20.2
40°-50°	770.7	18.4
50°-60°	603.3	14.4
60°-70°	283.3	6.8
70°-80°	69.9	1.7
80°-90°	1.8	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°	1609.5	38.5
0°-40°	2454.6	58.7
0°-60°	3828.6	91.5
0°-90°	4183.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4183.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2322	
5°	2308	218
15°	2097	587
25°	1758	804
35°	1345	845
45°	990	771
55°	685	603
65°	278	283
75°	60	70
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2322.0
2.5°	2311.7
5°	2308.0
7.5°	2281.7
10°	2228.1
12.5°	2162.4
15°	2096.7
17.5°	2015.0
20°	1923.9
22.5°	1840.4
25°	1757.7
27.5°	1659.1
30°	1550.2
32.5°	1446.0
35°	1344.6
37.5°	1259.1
40°	1170.9
42.5°	1082.6
45°	989.7
47.5°	914.5
50°	852.6
52.5°	782.2
55°	685.4
57.5°	577.5
60°	466.7
62.5°	367.1
65°	277.9
67.5°	200.9
70°	141.8
72.5°	96.7
75°	60.1
77.5°	32.9
80°	11.3
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)