

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: P210454

Luminaire Tested: **PR8R40D010 - PR8M34WDMW - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29051)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PR8R40D010 - PR8M34WDMW - 3000K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4372.4 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.39  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

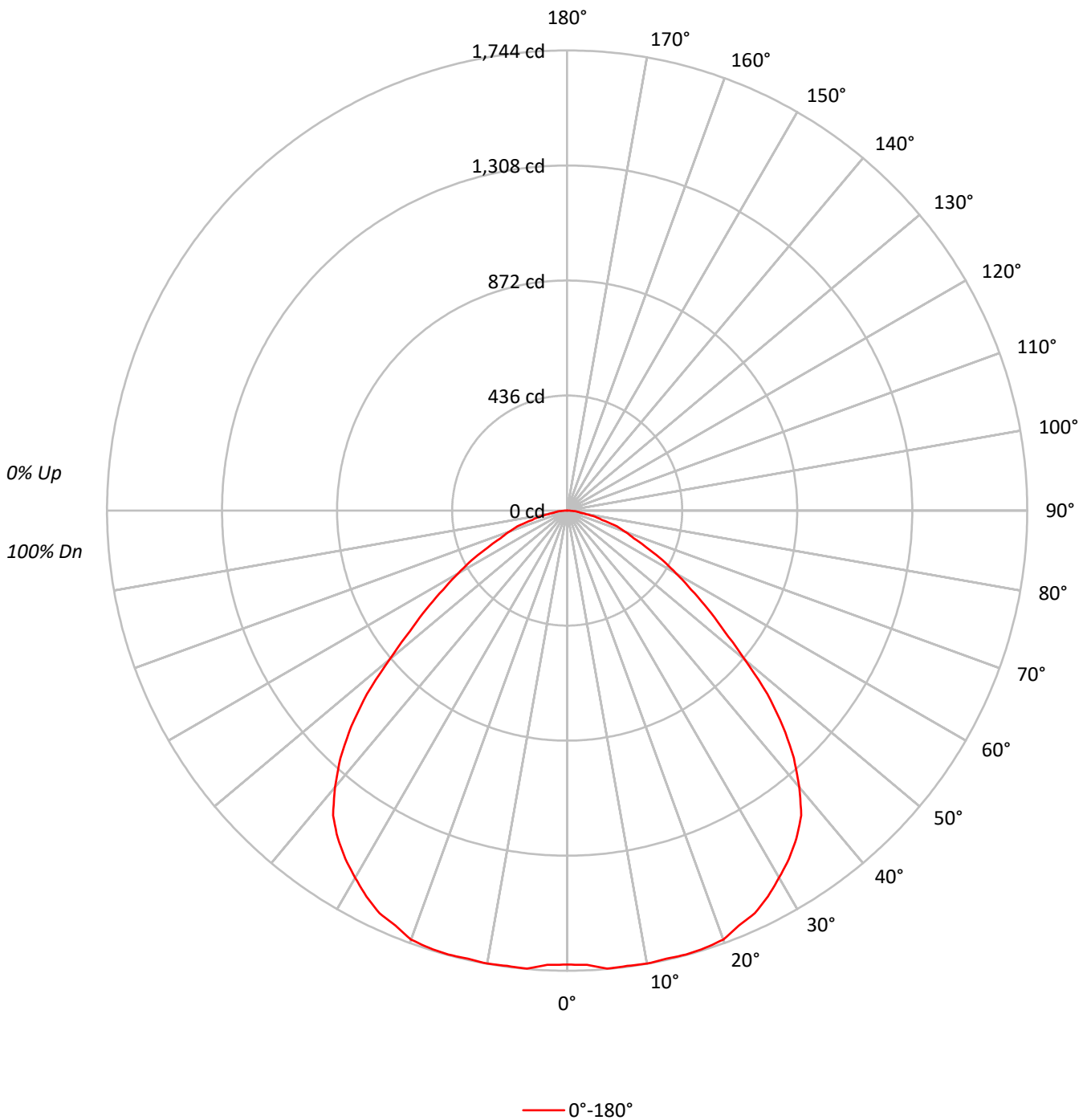
Input Watts (W): 43.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	53051
5°	53941
10°	54592
15°	55602
20°	56774
25°	57293
30°	57206
35°	57065
40°	55079
45°	50443
50°	42139
55°	35036
60°	29443
65°	24327
70°	20917
75°	16418
80°	11365
85°	11959



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.0	3.8
10°-20°	492.8	11.3
20°-30°	774.0	17.7
30°-40°	943.5	21.6
40°-50°	881.8	20.2
50°-60°	588.2	13.5
60°-70°	338.4	7.7
70°-80°	156.1	3.6
80°-90°	31.7	0.7
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°	1432.8	32.8
0°-40°	2376.3	54.3
0°-60°	3846.3	88.0
0°-90°	4372.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4372.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1720	
5°	1743	166
15°	1742	493
25°	1684	774
35°	1516	943
45°	1157	882
55°	652	588
65°	333	338
75°	138	156
85°	34	32
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1720.4
2.5°	1723.0
5°	1742.6
7.5°	1740.8
10°	1743.5
12.5°	1739.9
15°	1741.7
17.5°	1738.1
20°	1730.1
22.5°	1701.7
25°	1683.9
27.5°	1648.4
30°	1606.6
32.5°	1564.8
35°	1515.9
37.5°	1457.2
40°	1368.3
42.5°	1271.4
45°	1156.7
47.5°	1029.6
50°	878.4
52.5°	750.4
55°	651.7
57.5°	557.5
60°	477.4
62.5°	408.1
65°	333.4
67.5°	273.8
70°	232.0
72.5°	197.4
75°	137.8
77.5°	109.4
80°	64.0
82.5°	40.9
85°	33.8
87.5°	9.8
90°	0.0

(END OF REPORT)