

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: P210104

Luminaire Tested: **PR840D010 - PR8M34MDMW - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210104  
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: PR840D010 - PR8M34MDMW - 3000K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM 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: 4396.6 lumens  
Efficiency: N/A  
Efficacy: 101.1 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

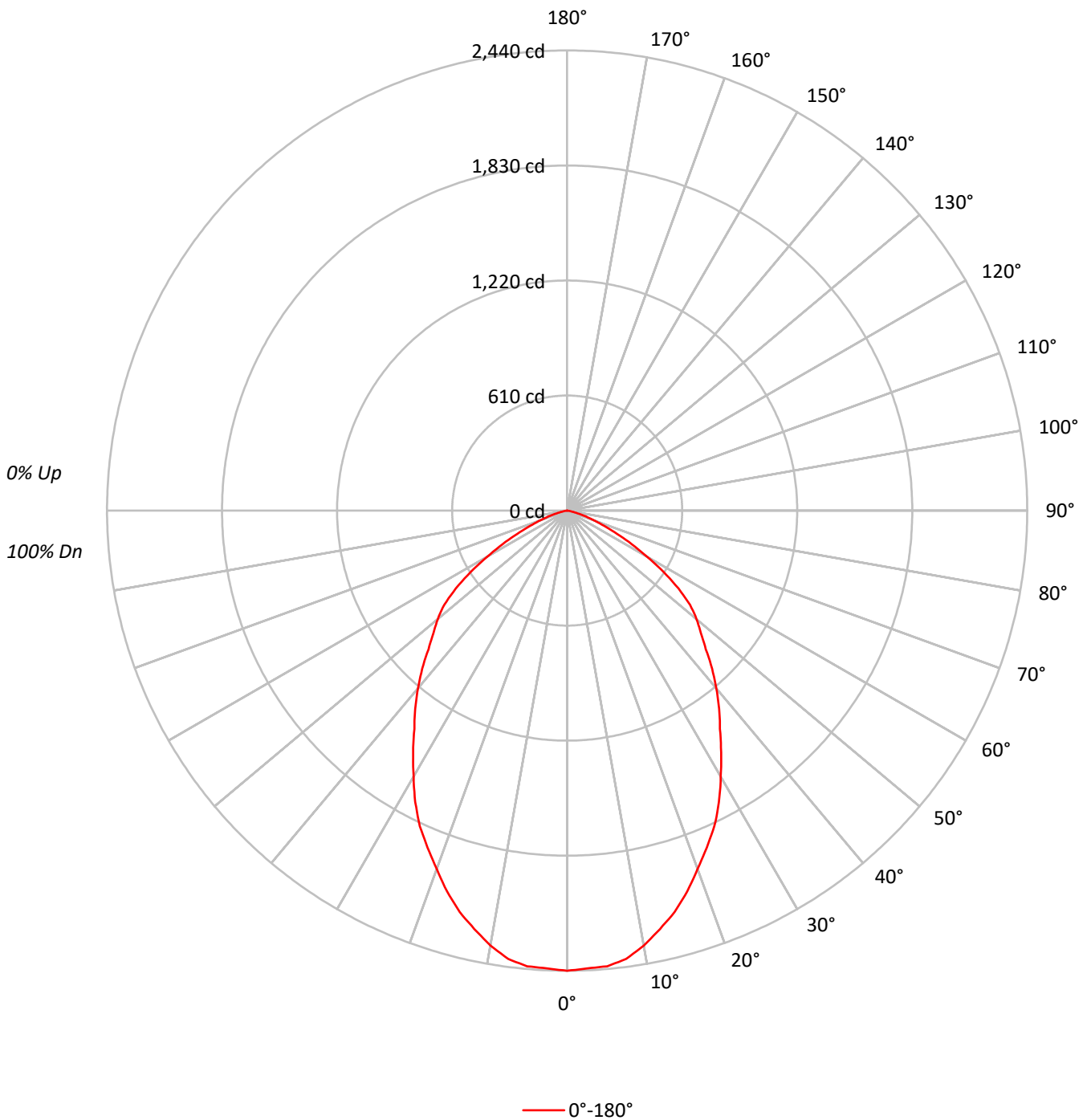
Input Watts (W): 43.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	75247
5°	75076
10°	73320
15°	70342
20°	66349
25°	62849
30°	58007
35°	53191
40°	49532
45°	45353
50°	42984
55°	38724
60°	30244
65°	21313
70°	13434
75°	7530
80°	2095
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.9	5.2
10°-20°	617.3	14.0
20°-30°	845.3	19.2
30°-40°	888.1	20.2
40°-50°	809.9	18.4
50°-60°	634.0	14.4
60°-70°	297.8	6.8
70°-80°	73.4	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°	1691.5	38.5
0°-40°	2579.6	58.7
0°-60°	4023.5	91.5
0°-90°	4396.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4396.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2440	
5°	2425	229
15°	2203	617
25°	1847	845
35°	1413	888
45°	1040	810
55°	720	634
65°	292	298
75°	63	73
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2440.2
2.5°	2429.4
5°	2425.4
7.5°	2397.8
10°	2341.6
12.5°	2272.5
15°	2203.4
17.5°	2117.6
20°	2021.9
22.5°	1934.0
25°	1847.2
27.5°	1743.6
30°	1629.1
32.5°	1519.6
35°	1413.0
37.5°	1323.2
40°	1230.5
42.5°	1137.7
45°	1040.0
47.5°	961.1
50°	896.0
52.5°	822.0
55°	720.3
57.5°	606.9
60°	490.4
62.5°	385.8
65°	292.1
67.5°	211.2
70°	149.0
72.5°	101.6
75°	63.2
77.5°	34.5
80°	11.8
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)