

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: P210101

Luminaire Tested: **PR830D010 - PR8M34MDMW - 4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210101  
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: PR830D010 - PR8M34MDMW - 4000K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE WHITE FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3376.4 lumens  
Efficiency: N/A  
Efficacy: 118.5 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

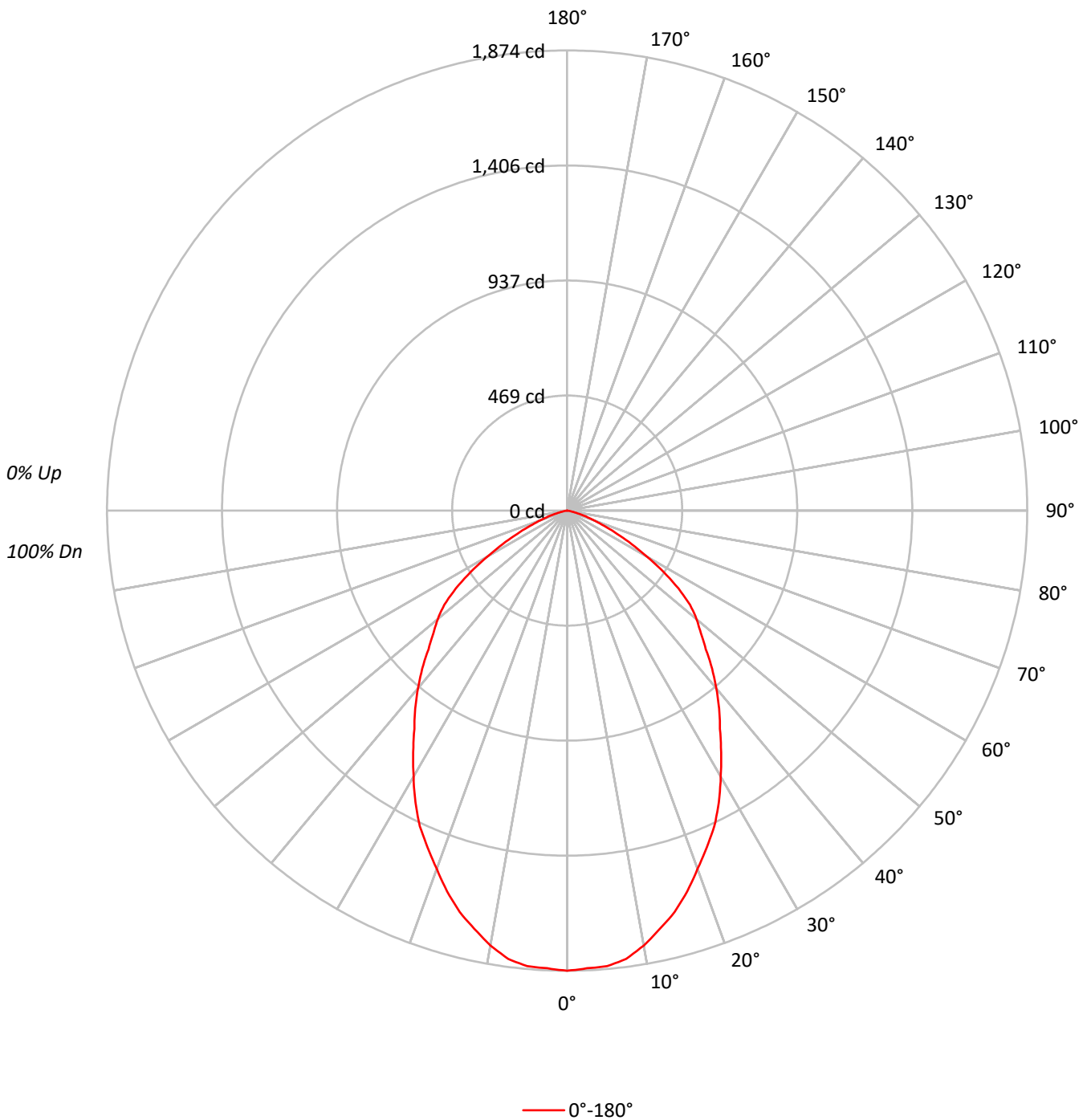
Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	57787
5°	57658
10°	56308
15°	54022
20°	50952
25°	48267
30°	44548
35°	40851
40°	38040
45°	34831
50°	33010
55°	29741
60°	23226
65°	16366
70°	10314
75°	5778
80°	1616
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.8	5.2
10°-20°	474.1	14.0
20°-30°	649.2	19.2
30°-40°	682.0	20.2
40°-50°	622.0	18.4
50°-60°	486.8	14.4
60°-70°	228.7	6.8
70°-80°	56.4	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°	1299.0	38.5
0°-40°	1981.0	58.7
0°-60°	3089.9	91.5
0°-90°	3376.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3376.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1874	
5°	1863	176
15°	1692	474
25°	1419	649
35°	1085	682
45°	799	622
55°	553	487
65°	224	229
75°	48	56
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1874.0
2.5°	1865.7
5°	1862.7
7.5°	1841.4
10°	1798.3
12.5°	1745.2
15°	1692.2
17.5°	1626.2
20°	1552.7
22.5°	1485.3
25°	1418.6
27.5°	1339.0
30°	1251.1
32.5°	1167.0
35°	1085.2
37.5°	1016.2
40°	945.0
42.5°	873.7
45°	798.7
47.5°	738.1
50°	688.1
52.5°	631.2
55°	553.2
57.5°	466.0
60°	376.6
62.5°	296.3
65°	224.3
67.5°	162.2
70°	114.4
72.5°	78.1
75°	48.5
77.5°	26.5
80°	9.1
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)