

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: P210301

Luminaire Tested: **PR830D010 - PR8M34MDMB - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210301  
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 - PR8M34MDMB - 3500K  
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3291.9 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

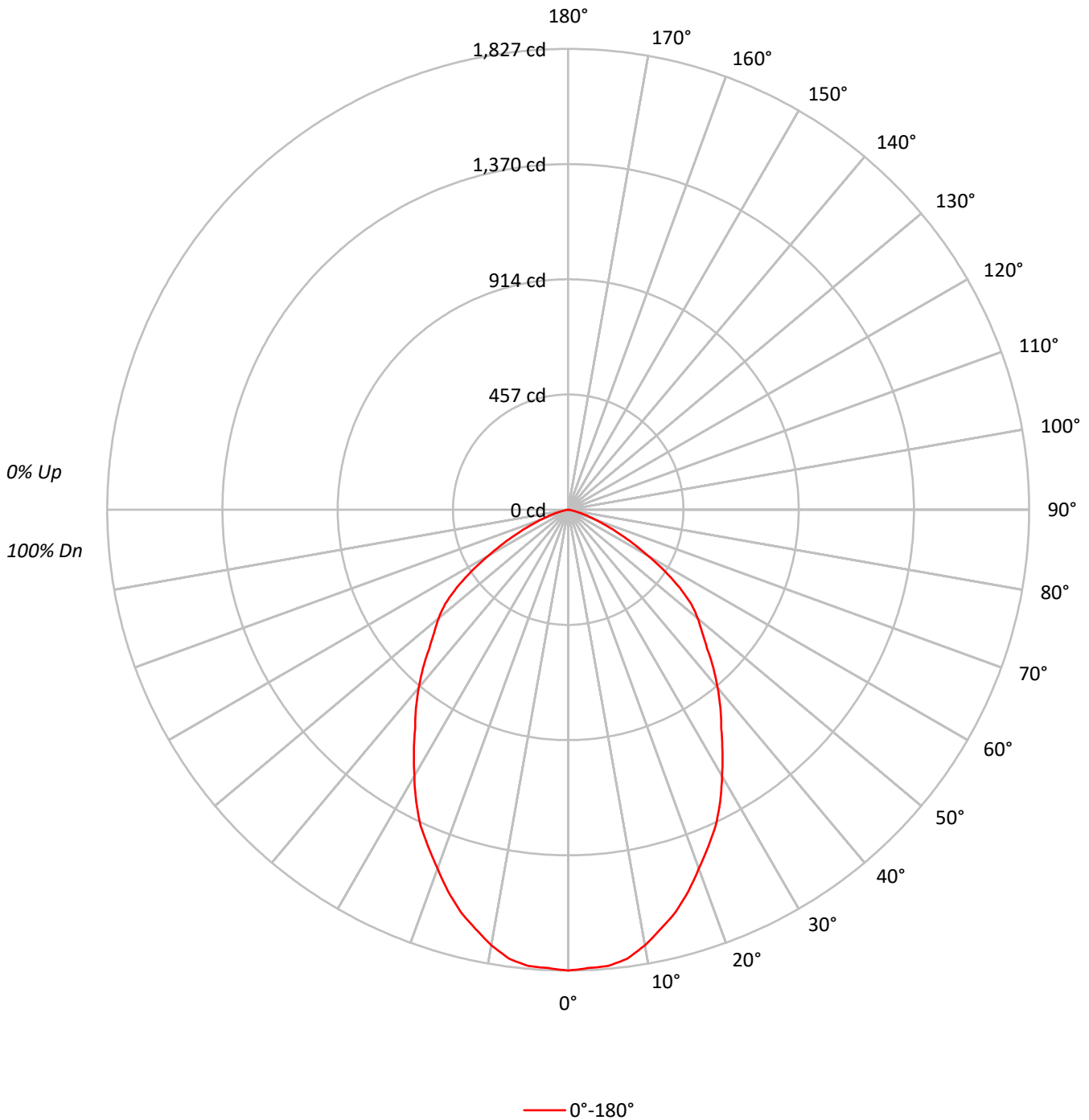
Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	56341
5°	56213
10°	54896
15°	52668
20°	49676
25°	47055
30°	43433
35°	39828
40°	37086
45°	33958
50°	32180
55°	28994
60°	22646
65°	15957
70°	10062
75°	5635
80°	1580
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	5.2
10°-20°	462.2	14.0
20°-30°	632.9	19.2
30°-40°	664.9	20.2
40°-50°	606.4	18.4
50°-60°	474.7	14.4
60°-70°	223.0	6.8
70°-80°	55.0	1.7
80°-90°	1.4	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°	1266.5	38.5
0°-40°	1931.4	58.7
0°-60°	3012.5	91.5
0°-90°	3291.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3291.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1827	
5°	1816	171
15°	1650	462
25°	1383	633
35°	1058	665
45°	779	606
55°	539	475
65°	219	223
75°	47	55
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1827.1
2.5°	1818.9
5°	1816.0
7.5°	1795.3
10°	1753.2
12.5°	1701.5
15°	1649.8
17.5°	1585.5
20°	1513.8
22.5°	1448.1
25°	1383.0
27.5°	1305.5
30°	1219.8
32.5°	1137.8
35°	1058.0
37.5°	990.7
40°	921.3
42.5°	851.8
45°	778.7
47.5°	719.6
50°	670.8
52.5°	615.4
55°	539.3
57.5°	454.4
60°	367.2
62.5°	288.9
65°	218.7
67.5°	158.1
70°	111.6
72.5°	76.1
75°	47.3
77.5°	25.9
80°	8.9
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)