

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: P210660

Luminaire Tested: **PR8S30D010 - PR8M34WDMMS - 3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210660  
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: PR8S30D010 - PR8M34WDMMS - 3500K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE METALLIC SILVER FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2933.5 lumens  
Efficiency: N/A  
Efficacy: 102.9 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

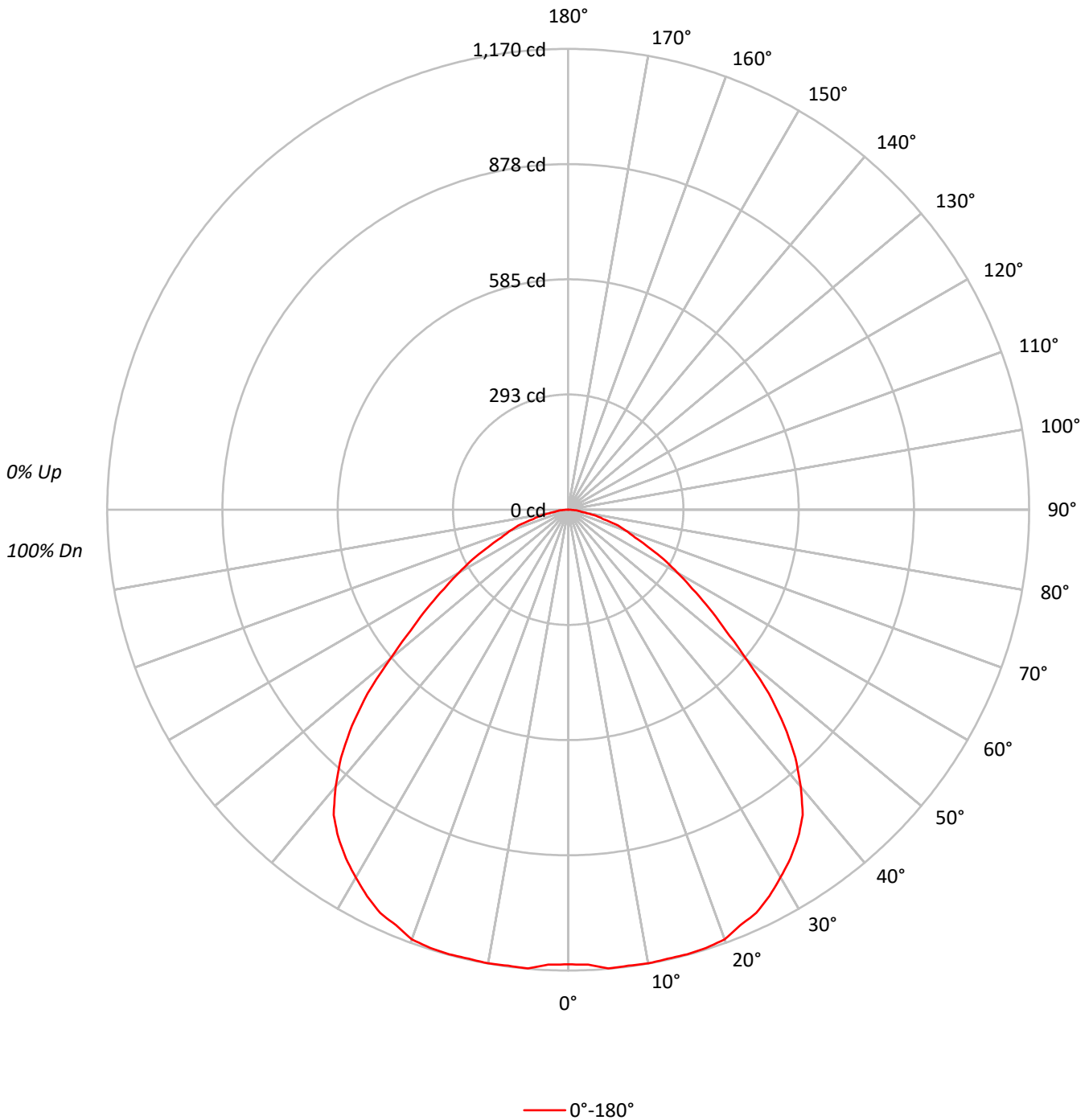
Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	35591
5°	36188
10°	36626
15°	37303
20°	38092
25°	38440
30°	38380
35°	38284
40°	36953
45°	33841
50°	28270
55°	23505
60°	19754
65°	16322
70°	14038
75°	11021
80°	7618
85°	8031



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	3.8
10°-20°	330.7	11.3
20°-30°	519.3	17.7
30°-40°	633.0	21.6
40°-50°	591.6	20.2
50°-60°	394.6	13.5
60°-70°	227.0	7.7
70°-80°	104.7	3.6
80°-90°	21.3	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°	961.3	32.8
0°-40°	1594.3	54.3
0°-60°	2580.5	88.0
0°-90°	2933.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2933.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1154	
5°	1169	111
15°	1168	331
25°	1130	519
35°	1017	633
45°	776	592
55°	437	395
65°	224	227
75°	92	105
85°	23	21
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1154.2
2.5°	1156.0
5°	1169.1
7.5°	1167.9
10°	1169.7
12.5°	1167.4
15°	1168.5
17.5°	1166.2
20°	1160.8
22.5°	1141.7
25°	1129.8
27.5°	1105.9
30°	1077.9
32.5°	1049.8
35°	1017.0
37.5°	977.7
40°	918.0
42.5°	853.0
45°	776.0
47.5°	690.7
50°	589.3
52.5°	503.4
55°	437.2
57.5°	374.0
60°	320.3
62.5°	273.8
65°	223.7
67.5°	183.7
70°	155.7
72.5°	132.4
75°	92.5
77.5°	73.4
80°	42.9
82.5°	27.4
85°	22.7
87.5°	6.6
90°	0.0

(END OF REPORT)