

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: P210659

Luminaire Tested: **PR8S30D010 - PR8M34WDMMS - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210659  
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 - 3000K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE METALLIC SILVER FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2599.9 lumens  
Efficiency: N/A  
Efficacy: 91.2 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

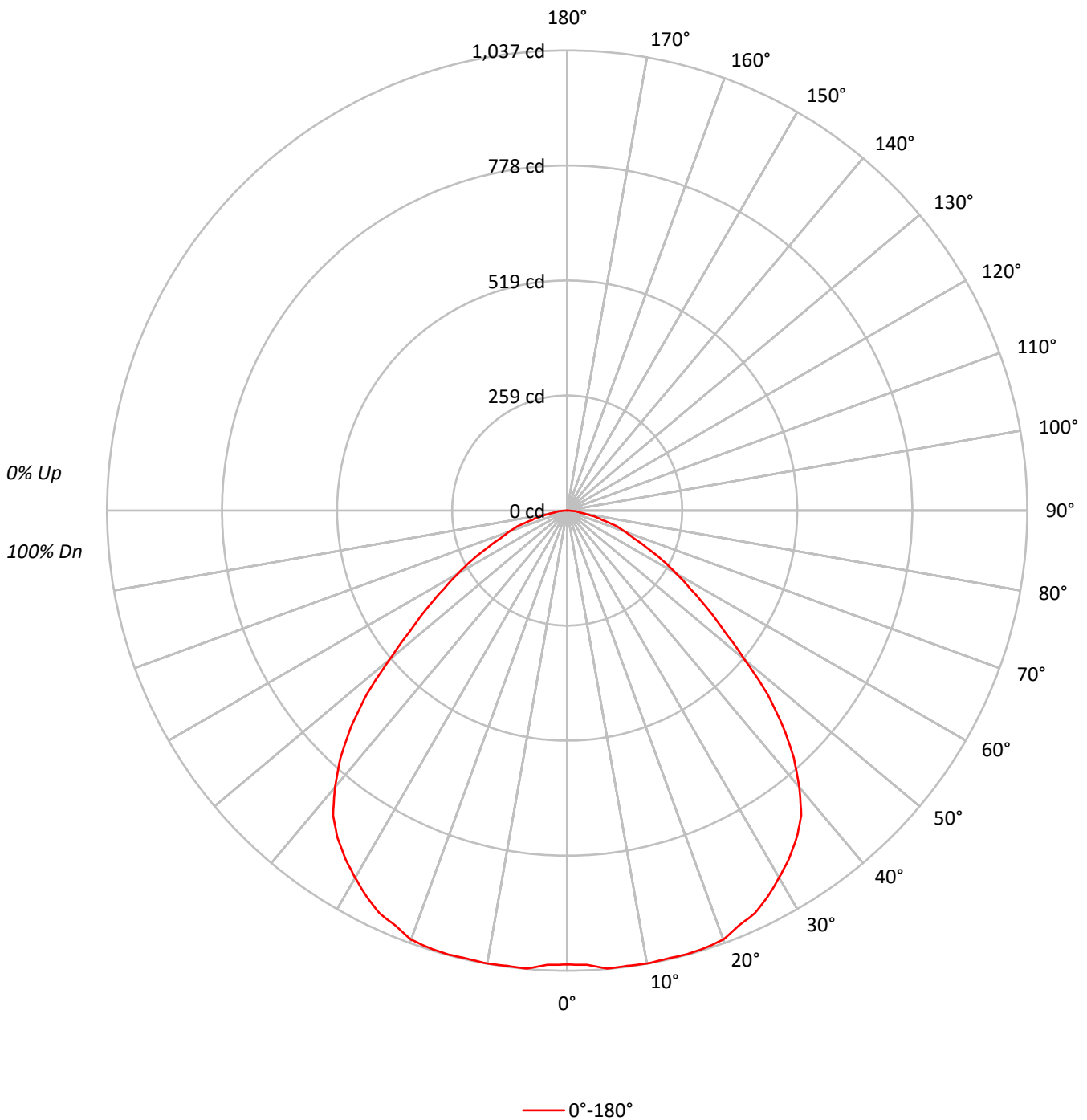
Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					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°	31546
5°	32075
10°	32461
15°	33064
20°	33760
25°	34068
30°	34015
35°	33932
40°	32751
45°	29994
50°	25056
55°	20833
60°	17509
65°	14462
70°	12442
75°	9758
80°	6766
85°	7112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.7	3.8
10°-20°	293.1	11.3
20°-30°	460.2	17.7
30°-40°	561.0	21.6
40°-50°	524.3	20.2
50°-60°	349.7	13.5
60°-70°	201.2	7.7
70°-80°	92.8	3.6
80°-90°	18.8	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°	852.0	32.8
0°-40°	1413.0	54.3
0°-60°	2287.1	88.0
0°-90°	2599.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2599.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1023	
5°	1036	99
15°	1036	293
25°	1001	460
35°	901	561
45°	688	524
55°	388	350
65°	198	201
75°	82	93
85°	20	19
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1023.0
2.5°	1024.5
5°	1036.2
7.5°	1035.1
10°	1036.7
12.5°	1034.6
15°	1035.7
17.5°	1033.5
20°	1028.8
22.5°	1011.9
25°	1001.3
27.5°	980.1
30°	955.3
32.5°	930.4
35°	901.4
37.5°	866.5
40°	813.6
42.5°	756.0
45°	687.8
47.5°	612.2
50°	522.3
52.5°	446.2
55°	387.5
57.5°	331.5
60°	283.9
62.5°	242.7
65°	198.2
67.5°	162.8
70°	138.0
72.5°	117.4
75°	81.9
77.5°	65.0
80°	38.1
82.5°	24.3
85°	20.1
87.5°	5.8
90°	0.0

(END OF REPORT)