

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: P210664

Luminaire Tested: **PR8S40D010 - PR8M34WDMMS - 3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210664  
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: PR8S40D010 - 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: 3552.6 lumens  
Efficiency: N/A  
Efficacy: 81.7 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

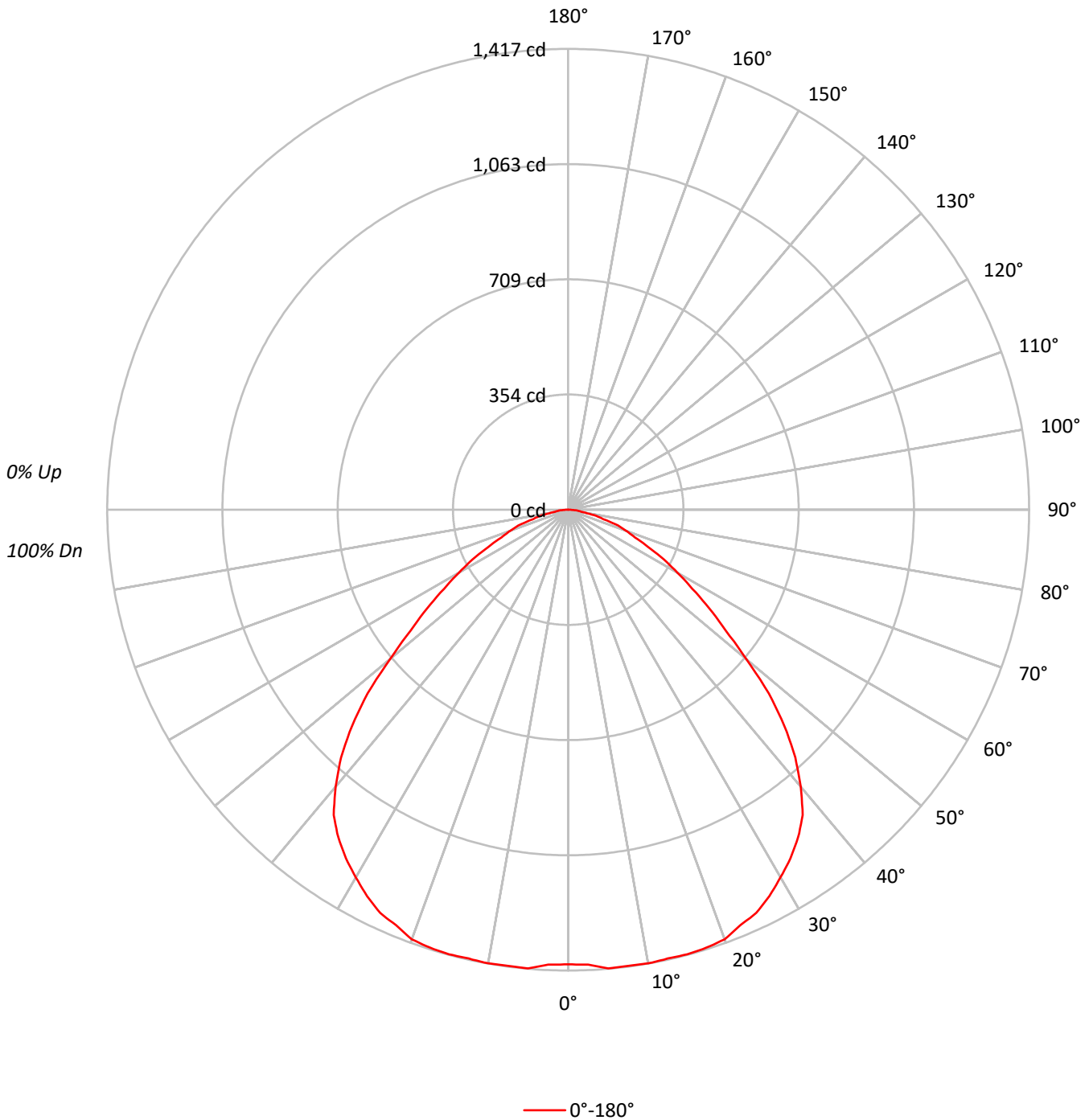
Input Watts (W): 43.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	43106
5°	43828
10°	44357
15°	45179
20°	46132
25°	46552
30°	46481
35°	46366
40°	44754
45°	40984
50°	34238
55°	28467
60°	23923
65°	19766
70°	16995
75°	13344
80°	9234
85°	9730



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.9	3.8
10°-20°	400.5	11.3
20°-30°	628.9	17.7
30°-40°	766.6	21.6
40°-50°	716.5	20.2
50°-60°	477.9	13.5
60°-70°	274.9	7.7
70°-80°	126.8	3.6
80°-90°	25.7	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°	1164.2	32.8
0°-40°	1930.8	54.3
0°-60°	3125.1	88.0
0°-90°	3552.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3552.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1398	
5°	1416	135
15°	1415	400
25°	1368	629
35°	1232	767
45°	940	716
55°	530	478
65°	271	275
75°	112	127
85°	28	26
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1397.9
2.5°	1400.0
5°	1415.9
7.5°	1414.5
10°	1416.6
12.5°	1413.7
15°	1415.2
17.5°	1412.3
20°	1405.8
22.5°	1382.7
25°	1368.2
27.5°	1339.3
30°	1305.4
32.5°	1271.4
35°	1231.7
37.5°	1184.0
40°	1111.8
42.5°	1033.0
45°	939.8
47.5°	836.5
50°	713.7
52.5°	609.7
55°	529.5
57.5°	452.9
60°	387.9
62.5°	331.6
65°	270.9
67.5°	222.5
70°	188.5
72.5°	160.4
75°	112.0
77.5°	88.9
80°	52.0
82.5°	33.2
85°	27.5
87.5°	7.9
90°	0.0

(END OF REPORT)