

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: P210476

Luminaire Tested: **PR8R40D010 - PR8M34WDMMS - 4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P210476  
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: PR8R40D010 - PR8M34WDMMS - 4000K  
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE METALLIC SILVER FINISH  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4409.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 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

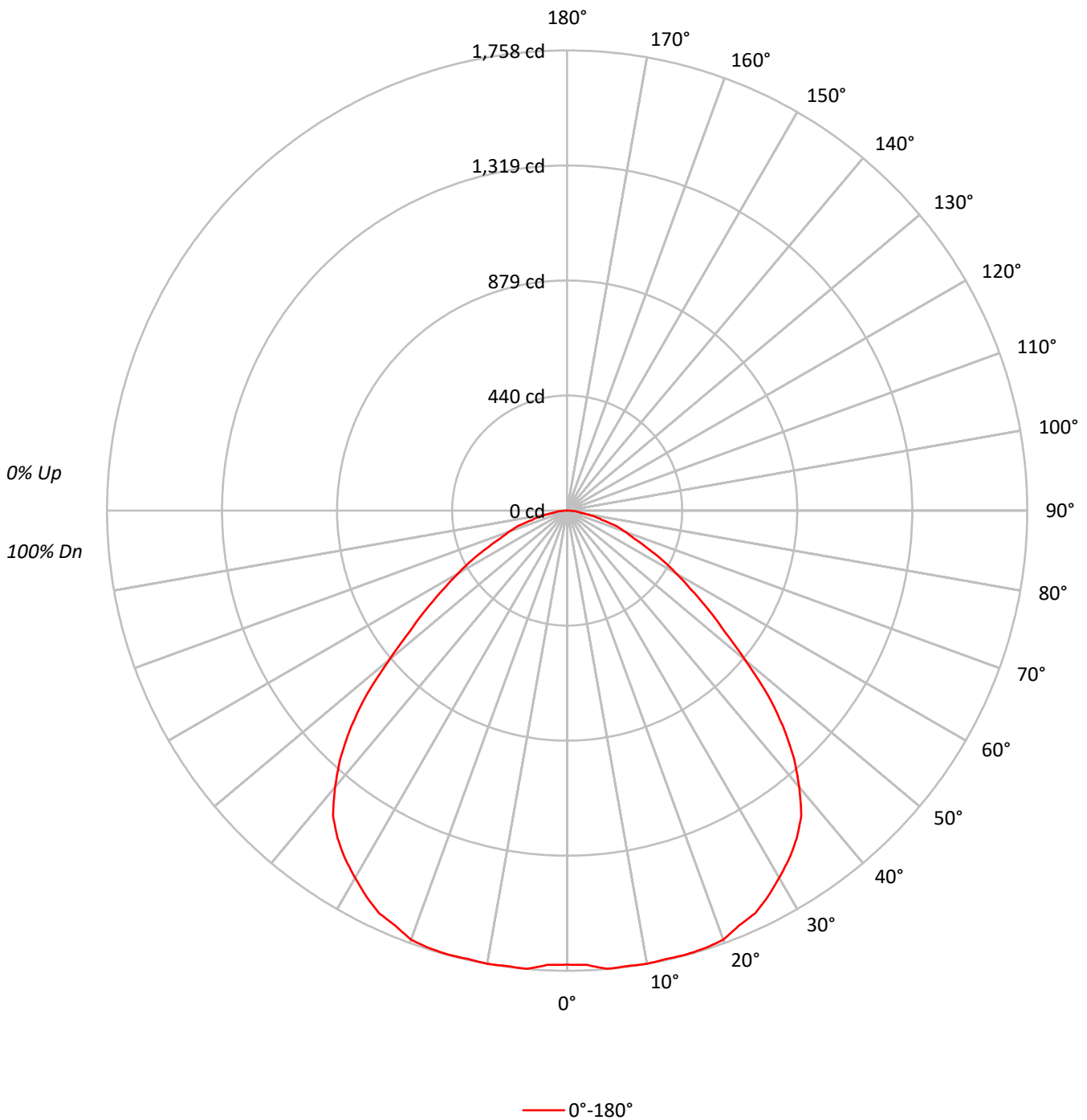
Input Watts (W): 43.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	53495
5°	54393
10°	55050
15°	56068
20°	57250
25°	57773
30°	57683
35°	57543
40°	55538
45°	50866
50°	42494
55°	35327
60°	29689
65°	24531
70°	21097
75°	16561
80°	11454
85°	12065



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.4	3.8
10°-20°	497.0	11.3
20°-30°	780.5	17.7
30°-40°	951.4	21.6
40°-50°	889.2	20.2
50°-60°	593.1	13.5
60°-70°	341.2	7.7
70°-80°	157.4	3.6
80°-90°	32.0	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°	1444.8	32.8
0°-40°	2396.2	54.3
0°-60°	3878.4	88.0
0°-90°	4409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4409.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1735	
5°	1757	167
15°	1756	497
25°	1698	780
35°	1529	951
45°	1166	889
55°	657	593
65°	336	341
75°	139	157
85°	34	32
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1734.8
2.5°	1737.4
5°	1757.2
7.5°	1755.4
10°	1758.1
12.5°	1754.5
15°	1756.3
17.5°	1752.7
20°	1744.6
22.5°	1715.9
25°	1698.0
27.5°	1662.1
30°	1620.0
32.5°	1577.9
35°	1528.6
37.5°	1469.4
40°	1379.7
42.5°	1282.0
45°	1166.4
47.5°	1038.2
50°	885.8
52.5°	756.7
55°	657.1
57.5°	562.1
60°	481.4
62.5°	411.5
65°	336.2
67.5°	276.1
70°	234.0
72.5°	199.0
75°	139.0
77.5°	110.3
80°	64.5
82.5°	41.2
85°	34.1
87.5°	9.9
90°	0.0

(END OF REPORT)