

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: P210665

Luminaire Tested: **PR8S40D010 - PR8M34WDMMS - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210665
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 - 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: 4008.6 lumens
Efficiency: N/A
Efficacy: 92.2 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

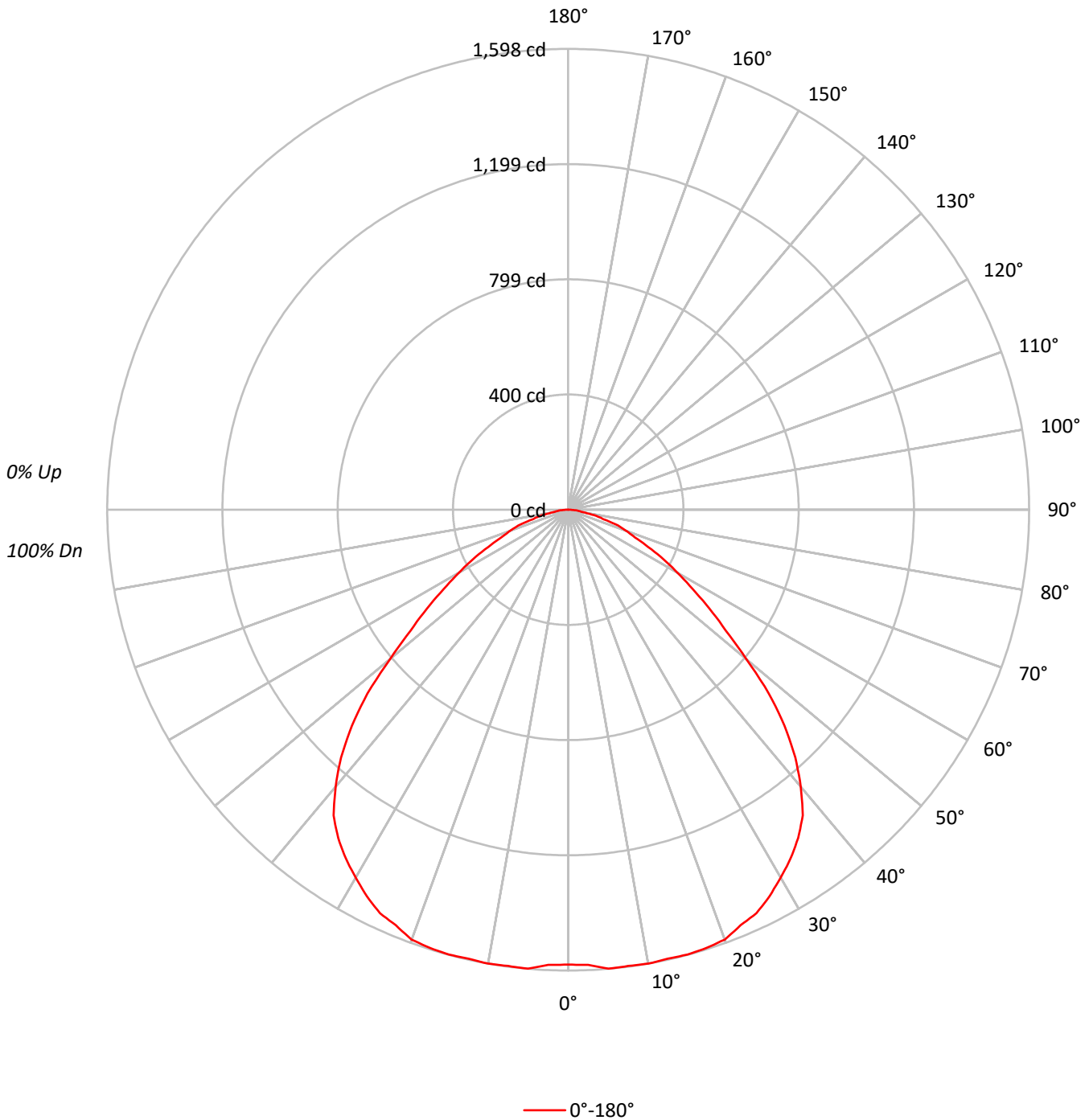
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210665

CATALOG NUMBER: PR8S40D010 - PR8M34WDMMS - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P210665

CATALOG NUMBER: PR8S40D010 - PR8M34WDMMS - 3500K

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°	48635
5°	49452
10°	50049
15°	50976
20°	52052
25°	52526
30°	52445
35°	52318
40°	50495
45°	46243
50°	38632
55°	32122
60°	26994
65°	22305
70°	19177
75°	15048
80°	10424
85°	10968



TEST NUMBER: P210665

CATALOG NUMBER: PR8S40D010 - PR8M34WDMMS - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	3.8
10°-20°	451.8	11.3
20°-30°	709.6	17.7
30°-40°	865.0	21.6
40°-50°	808.4	20.2
50°-60°	539.2	13.5
60°-70°	310.2	7.7
70°-80°	143.1	3.6
80°-90°	29.1	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°	1313.6	32.8
0°-40°	2178.6	54.3
0°-60°	3526.2	88.0
0°-90°	4008.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1577	
5°	1598	152
15°	1597	452
25°	1544	710
35°	1390	865
45°	1060	808
55°	598	539
65°	306	310
75°	126	143
85°	31	29
90°	0	



TEST NUMBER: P210665

CATALOG NUMBER: PR8S40D010 - PR8M34WDMMS - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1577.2
2.5°	1579.7
5°	1597.6
7.5°	1596.0
10°	1598.4
12.5°	1595.2
15°	1596.8
17.5°	1593.5
20°	1586.2
22.5°	1560.1
25°	1543.8
27.5°	1511.2
30°	1472.9
32.5°	1434.6
35°	1389.8
37.5°	1336.0
40°	1254.4
42.5°	1165.6
45°	1060.4
47.5°	943.9
50°	805.3
52.5°	687.9
55°	597.5
57.5°	511.1
60°	437.7
62.5°	374.1
65°	305.7
67.5°	251.1
70°	212.7
72.5°	181.0
75°	126.3
77.5°	100.3
80°	58.7
82.5°	37.5
85°	31.0
87.5°	9.0
90°	0.0

(END OF REPORT)