

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: P210646

Luminaire Tested: **PR8S40D010 - PR8M34WDMW - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210646
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 - PR8M34WDMW - 4000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3880.0 lumens
Efficiency: N/A
Efficacy: 89.2 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

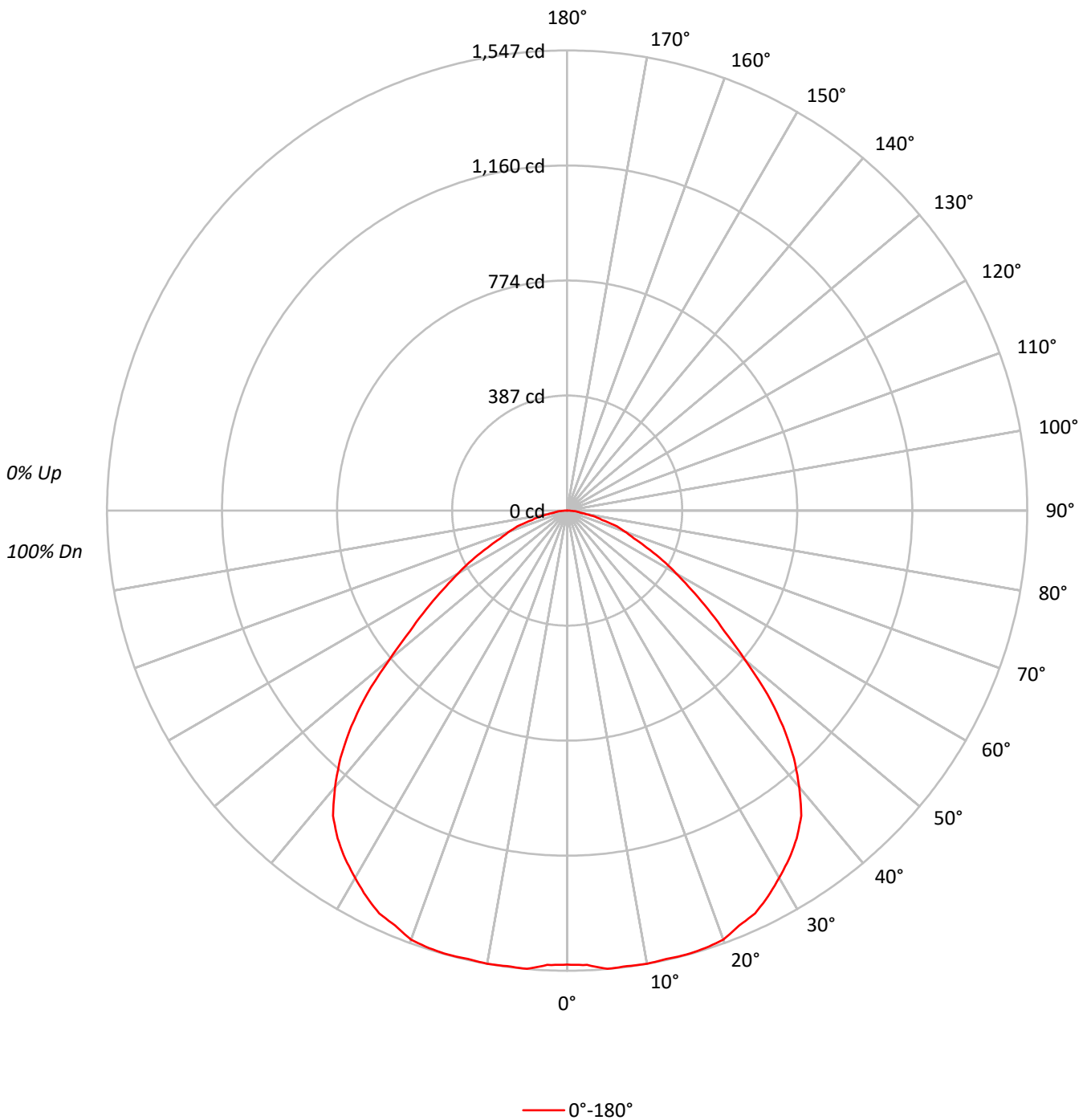
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210646

CATALOG NUMBER: PR8S40D010 - PR8M34WDMW - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P210646

CATALOG NUMBER: PR8S40D010 - PR8M34WDMW - 4000K

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°	47075
5°	47867
10°	48443
15°	49342
20°	50381
25°	50842
30°	50761
35°	50639
40°	48876
45°	44760
50°	37395
55°	31090
60°	26131
65°	21590
70°	18564
75°	14571
80°	10087
85°	10614



TEST NUMBER: P210646

CATALOG NUMBER: PR8S40D010 - PR8M34WDMW - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	3.8
10°-20°	437.4	11.3
20°-30°	686.8	17.7
30°-40°	837.2	21.6
40°-50°	782.5	20.2
50°-60°	521.9	13.5
60°-70°	300.3	7.7
70°-80°	138.5	3.6
80°-90°	28.1	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°	1271.5	32.8
0°-40°	2108.7	54.3
0°-60°	3413.1	88.0
0°-90°	3880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3880.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1527	
5°	1546	147
15°	1546	437
25°	1494	687
35°	1345	837
45°	1026	782
55°	578	522
65°	296	300
75°	122	138
85°	30	28
90°	0	



TEST NUMBER: P210646

CATALOG NUMBER: PR8S40D010 - PR8M34WDMW - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1526.6
2.5°	1529.0
5°	1546.4
7.5°	1544.8
10°	1547.1
12.5°	1544.0
15°	1545.6
17.5°	1542.4
20°	1535.3
22.5°	1510.1
25°	1494.3
27.5°	1462.7
30°	1425.6
32.5°	1388.6
35°	1345.2
37.5°	1293.1
40°	1214.2
42.5°	1128.2
45°	1026.4
47.5°	913.6
50°	779.5
52.5°	665.9
55°	578.3
57.5°	494.7
60°	423.7
62.5°	362.1
65°	295.9
67.5°	243.0
70°	205.9
72.5°	175.1
75°	122.3
77.5°	97.0
80°	56.8
82.5°	36.3
85°	30.0
87.5°	8.7
90°	0.0

(END OF REPORT)