

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: P210310

Luminaire Tested: **PR840D010 - PR8M34WDMMS - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210310
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: PR840D010 - 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: 4740.5 lumens
Efficiency: N/A
Efficacy: 109.0 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

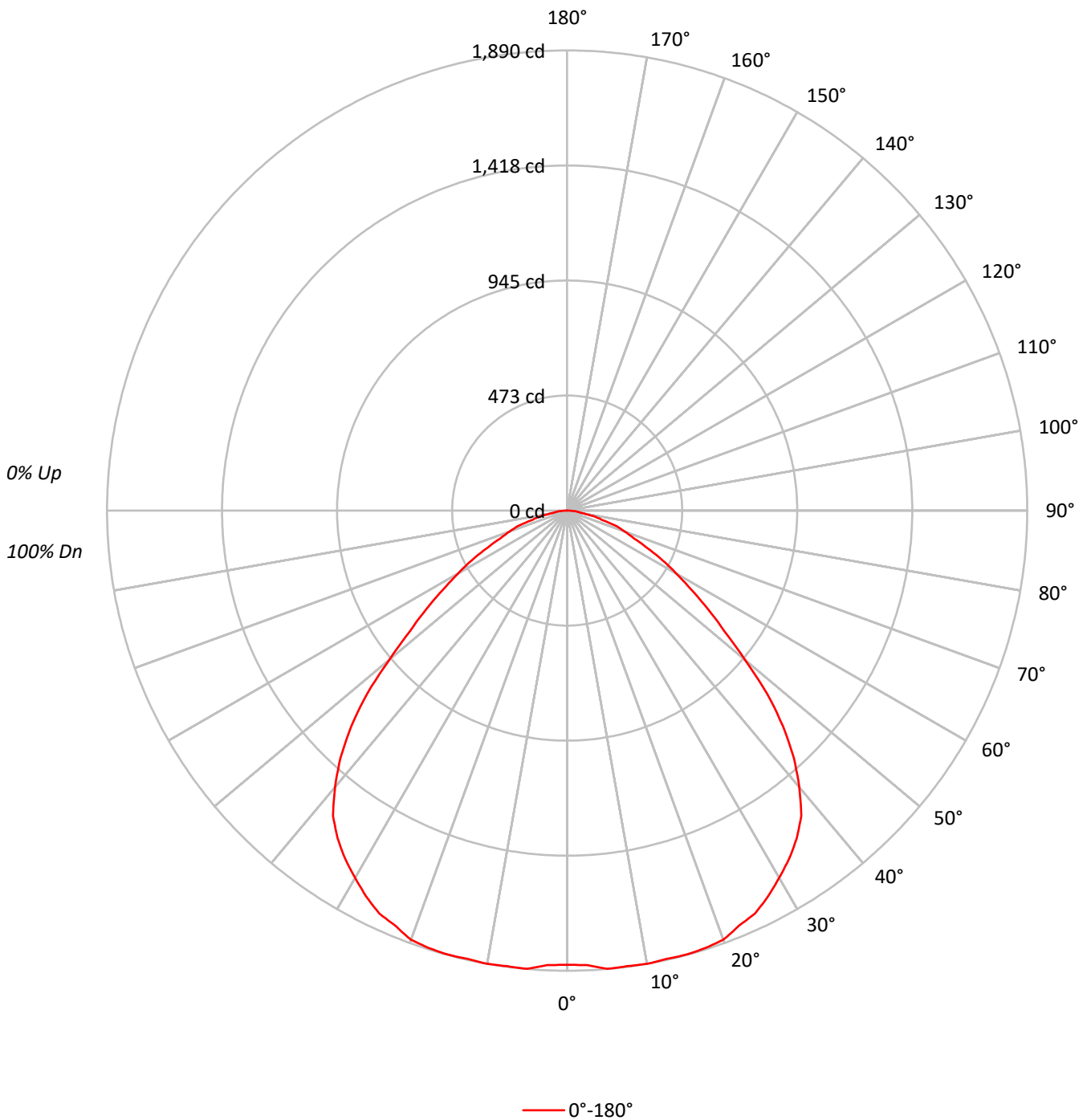
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210310

CATALOG NUMBER: PR840D010 - PR8M34WDMMS - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P210310

CATALOG NUMBER: PR840D010 - 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°	57516
5°	58482
10°	59189
15°	60282
20°	61555
25°	62118
30°	62020
35°	61868
40°	59717
45°	54690
50°	45689
55°	37988
60°	31922
65°	26377
70°	22684
75°	17800
80°	12324
85°	12949



TEST NUMBER: P210310

CATALOG NUMBER: PR840D010 - PR8M34WDMMS - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	3.8
10°-20°	534.3	11.3
20°-30°	839.1	17.7
30°-40°	1022.9	21.6
40°-50°	956.0	20.2
50°-60°	637.7	13.5
60°-70°	366.9	7.7
70°-80°	169.2	3.6
80°-90°	34.3	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°	1553.5	32.8
0°-40°	2576.4	54.3
0°-60°	4170.1	88.0
0°-90°	4740.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4740.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1865	
5°	1889	180
15°	1888	534
25°	1826	839
35°	1644	1023
45°	1254	956
55°	707	638
65°	362	367
75°	149	169
85°	37	34
90°	0	



TEST NUMBER: P210310

CATALOG NUMBER: PR840D010 - PR8M34WDMMS - 3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1865.2
2.5°	1868.1
5°	1889.3
7.5°	1887.4
10°	1890.3
12.5°	1886.4
15°	1888.3
17.5°	1884.5
20°	1875.8
22.5°	1845.0
25°	1825.7
27.5°	1787.1
30°	1741.8
32.5°	1696.5
35°	1643.5
37.5°	1579.9
40°	1483.5
42.5°	1378.4
45°	1254.1
47.5°	1116.2
50°	952.4
52.5°	813.6
55°	706.6
57.5°	604.4
60°	517.6
62.5°	442.4
65°	361.5
67.5°	296.9
70°	251.6
72.5°	214.0
75°	149.4
77.5°	118.6
80°	69.4
82.5°	44.3
85°	36.6
87.5°	10.6
90°	0.0

(END OF REPORT)