

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: P210645

Luminaire Tested: **PR8S40D010 - PR8M34WDMW - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210645
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 - 3500K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4171.7 lumens
Efficiency: N/A
Efficacy: 95.9 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

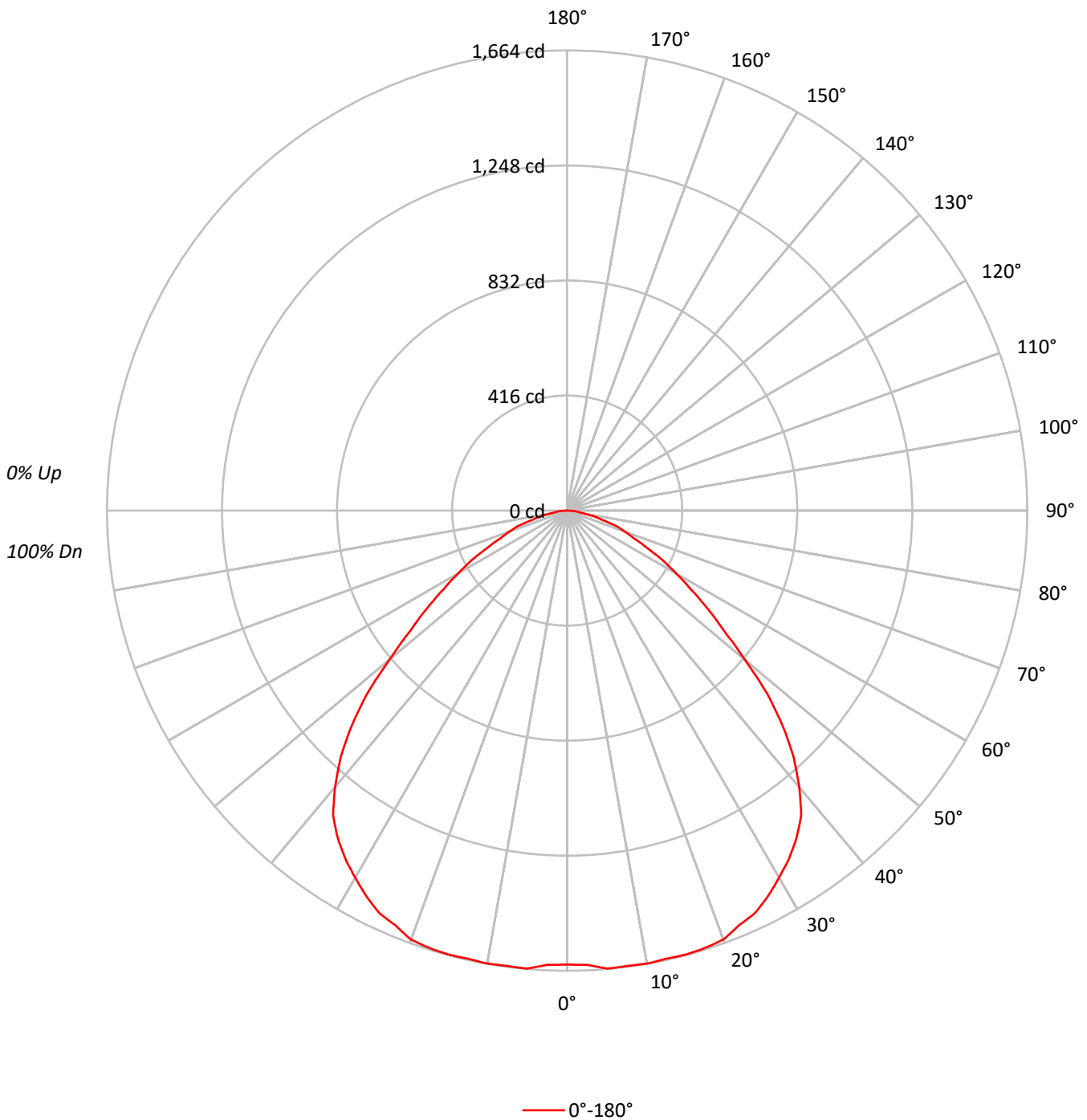
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	50615
5°	51464
10°	52088
15°	53051
20°	54172
25°	54663
30°	54578
35°	54445
40°	52552
45°	48127
50°	40206
55°	33429
60°	28092
65°	23210
70°	19961
75°	15667
80°	10850
85°	11393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	3.8
10°-20°	470.2	11.3
20°-30°	738.5	17.7
30°-40°	900.2	21.6
40°-50°	841.3	20.2
50°-60°	561.2	13.5
60°-70°	322.9	7.7
70°-80°	148.9	3.6
80°-90°	30.2	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°	1367.1	32.8
0°-40°	2267.3	54.3
0°-60°	3669.8	88.0
0°-90°	4171.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4171.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1641	
5°	1663	158
15°	1662	470
25°	1607	738
35°	1446	900
45°	1104	841
55°	622	561
65°	318	323
75°	132	149
85°	32	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1641.4
2.5°	1644.0
5°	1662.6
7.5°	1660.9
10°	1663.5
12.5°	1660.1
15°	1661.8
17.5°	1658.4
20°	1650.8
22.5°	1623.6
25°	1606.6
27.5°	1572.7
30°	1532.8
32.5°	1493.0
35°	1446.3
37.5°	1390.3
40°	1305.5
42.5°	1213.0
45°	1103.6
47.5°	982.3
50°	838.1
52.5°	716.0
55°	621.8
57.5°	531.9
60°	455.5
62.5°	389.4
65°	318.1
67.5°	261.3
70°	221.4
72.5°	188.3
75°	131.5
77.5°	104.3
80°	61.1
82.5°	39.0
85°	32.2
87.5°	9.3
90°	0.0

(END OF REPORT)