

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: P210615

Luminaire Tested: **PR8S40D010 - PR8M34MDMW - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29049)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR8S40D010 - PR8M34MDMW - 3500K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM 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: 4194.9 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

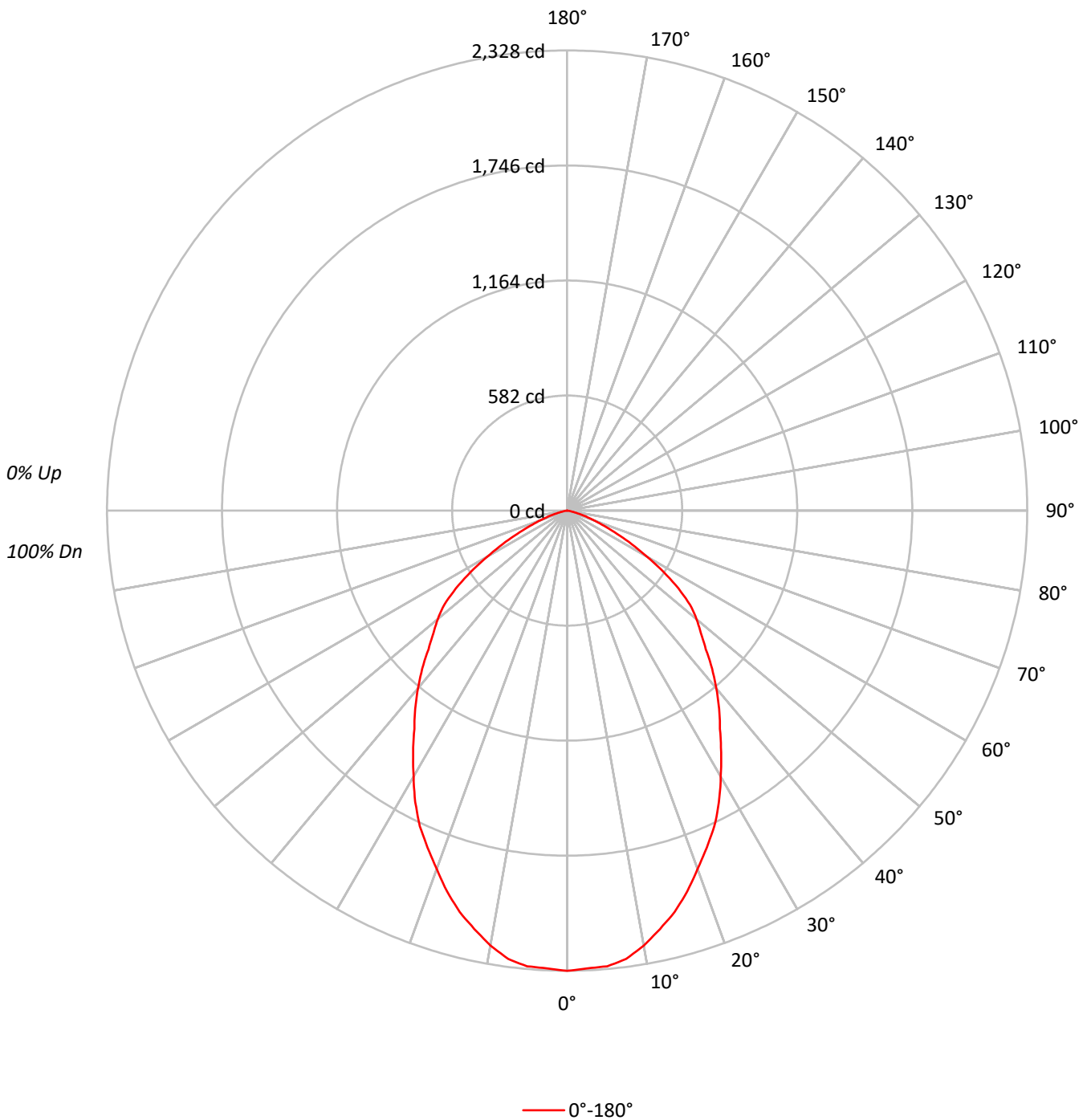
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	96	91	86	100	94	89	85	91	87	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50		60	54	49		58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71796
5°	71634
10°	69954
15°	67114
20°	63304
25°	59964
30°	55347
35°	50752
40°	47258
45°	43273
50°	41012
55°	36950
60°	28857
65°	20335
70°	12821
75°	7184
80°	2007
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	5.2
10°-20°	589.0	14.0
20°-30°	806.5	19.2
30°-40°	847.3	20.2
40°-50°	772.8	18.4
50°-60°	604.9	14.4
60°-70°	284.1	6.8
70°-80°	70.1	1.7
80°-90°	1.8	0.0
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°	1613.9	38.5
0°-40°	2461.2	58.7
0°-60°	3838.9	91.5
0°-90°	4194.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4194.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2328	
5°	2314	218
15°	2102	589
25°	1762	807
35°	1348	847
45°	992	773
55°	687	605
65°	279	284
75°	60	70
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2328.3
2.5°	2317.9
5°	2314.2
7.5°	2287.8
10°	2234.1
12.5°	2168.2
15°	2102.3
17.5°	2020.4
20°	1929.1
22.5°	1845.3
25°	1762.4
27.5°	1663.6
30°	1554.4
32.5°	1449.9
35°	1348.2
37.5°	1262.5
40°	1174.0
42.5°	1085.5
45°	992.3
47.5°	917.0
50°	854.9
52.5°	784.3
55°	687.3
57.5°	579.0
60°	467.9
62.5°	368.1
65°	278.7
67.5°	201.5
70°	142.2
72.5°	97.0
75°	60.3
77.5°	33.0
80°	11.3
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)