

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: P210616

Luminaire Tested: **PR8S40D010 - PR8M34MDMW - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210616
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 - 4000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM 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: 3901.5 lumens
Efficiency: N/A
Efficacy: 89.7 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

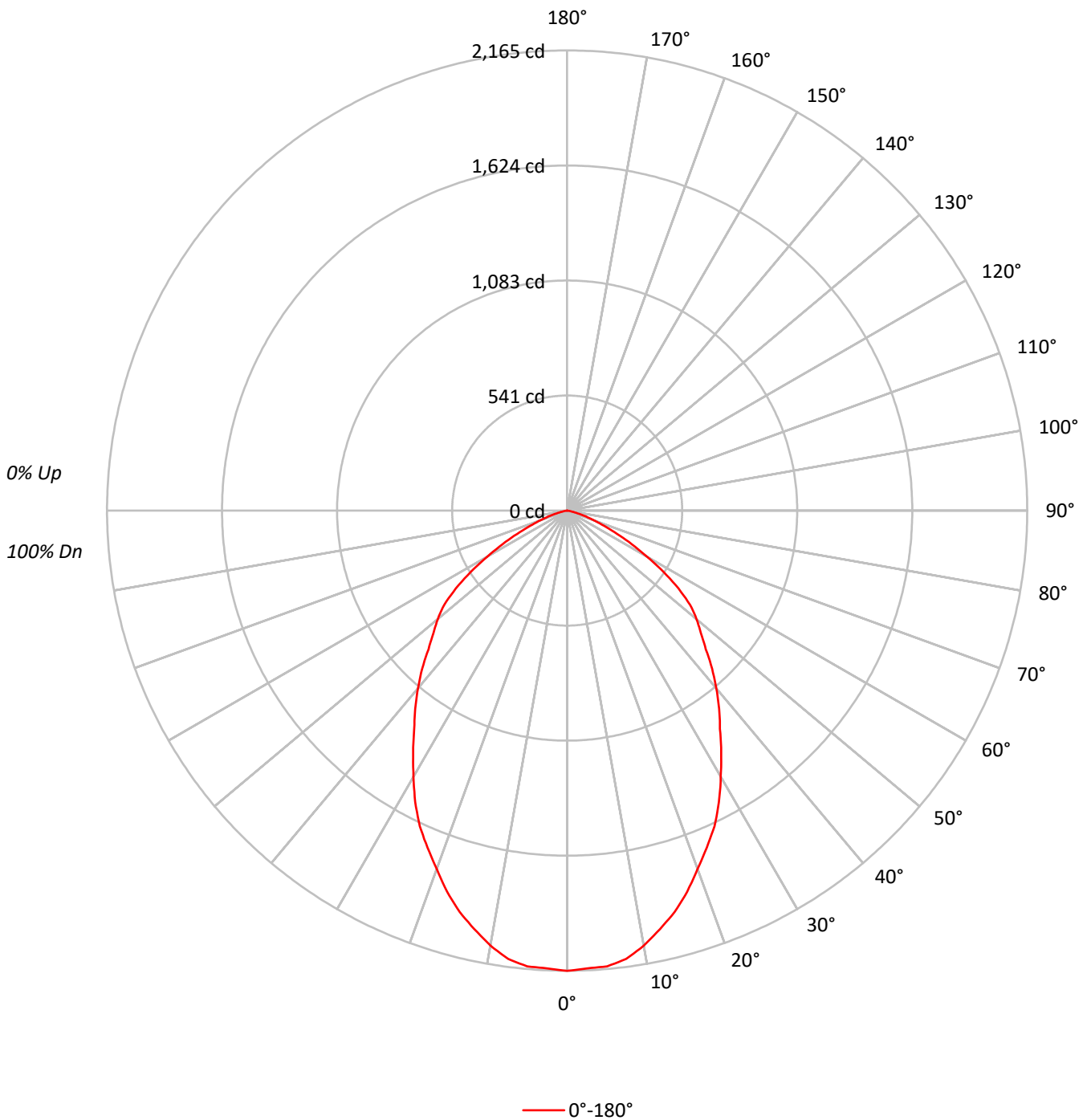
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	66773
5°	66623
10°	65063
15°	62421
20°	58877
25°	55772
30°	51477
35°	47202
40°	43953
45°	40247
50°	38143
55°	34364
60°	26840
65°	18913
70°	11919
75°	6672
80°	1865
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	5.2
10°-20°	547.8	14.0
20°-30°	750.1	19.2
30°-40°	788.1	20.2
40°-50°	718.7	18.4
50°-60°	562.6	14.4
60°-70°	264.3	6.8
70°-80°	65.2	1.7
80°-90°	1.7	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°	1501.0	38.5
0°-40°	2289.1	58.7
0°-60°	3570.4	91.5
0°-90°	3901.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3901.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2165	
5°	2152	203
15°	1955	548
25°	1639	750
35°	1254	788
45°	923	719
55°	639	563
65°	259	264
75°	56	65
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2165.4
2.5°	2155.8
5°	2152.3
7.5°	2127.8
10°	2077.9
12.5°	2016.6
15°	1955.3
17.5°	1879.1
20°	1794.2
22.5°	1716.2
25°	1639.2
27.5°	1547.2
30°	1445.7
32.5°	1348.5
35°	1253.9
37.5°	1174.2
40°	1091.9
42.5°	1009.6
45°	922.9
47.5°	852.9
50°	795.1
52.5°	729.4
55°	639.2
57.5°	538.5
60°	435.2
62.5°	342.4
65°	259.2
67.5°	187.4
70°	132.2
72.5°	90.2
75°	56.0
77.5°	30.6
80°	10.5
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)