

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: P210106

Luminaire Tested: **PR840D010 - PR8M34MDMW - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210106
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: PR840D010 - 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: 4613.8 lumens
Efficiency: N/A
Efficacy: 106.1 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

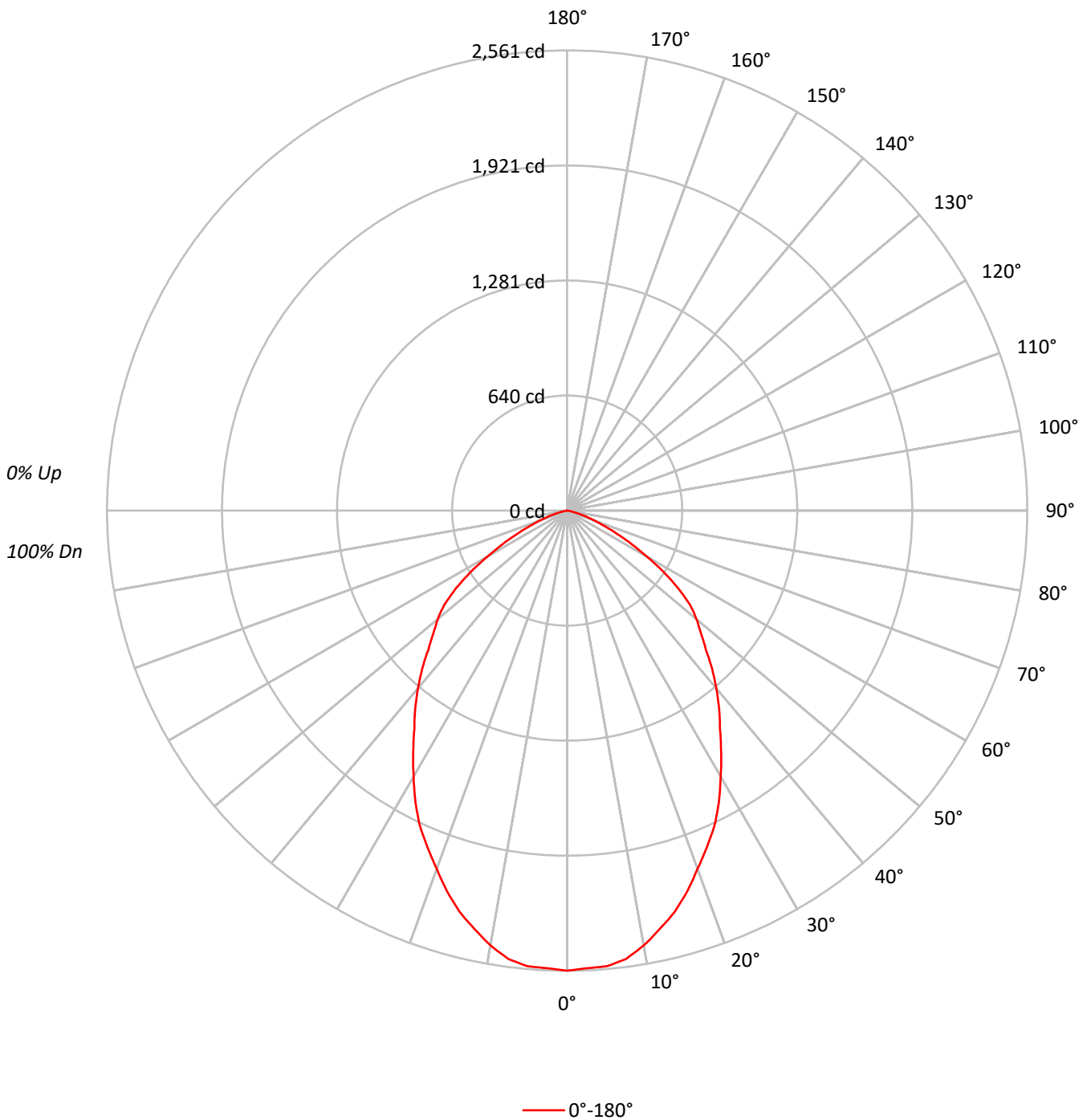
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	78966
5°	78787
10°	76943
15°	73818
20°	69628
25°	65956
30°	60873
35°	55823
40°	51980
45°	47595
50°	45104
55°	40638
60°	31737
65°	22364
70°	14101
75°	7899
80°	2202
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	5.2
10°-20°	647.8	14.0
20°-30°	887.1	19.2
30°-40°	932.0	20.2
40°-50°	850.0	18.4
50°-60°	665.3	14.4
60°-70°	312.5	6.8
70°-80°	77.1	1.7
80°-90°	2.0	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°	1775.1	38.5
0°-40°	2707.0	58.7
0°-60°	4222.3	91.5
0°-90°	4613.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4613.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2561	
5°	2545	240
15°	2312	648
25°	1938	887
35°	1483	932
45°	1091	850
55°	756	665
65°	306	312
75°	66	77
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2560.8
2.5°	2549.4
5°	2545.3
7.5°	2516.3
10°	2457.3
12.5°	2384.8
15°	2312.3
17.5°	2222.2
20°	2121.8
22.5°	2029.6
25°	1938.5
27.5°	1829.7
30°	1709.6
32.5°	1594.7
35°	1482.9
37.5°	1388.6
40°	1291.3
42.5°	1193.9
45°	1091.4
47.5°	1008.6
50°	940.2
52.5°	862.6
55°	755.9
57.5°	636.8
60°	514.6
62.5°	404.9
65°	306.5
67.5°	221.6
70°	156.4
72.5°	106.7
75°	66.3
77.5°	36.2
80°	12.4
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)