

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: P210644

Luminaire Tested: **PR8S40D010 - PR8M34WDMW - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210644
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 - 3000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3697.3 lumens
Efficiency: N/A
Efficacy: 85.0 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

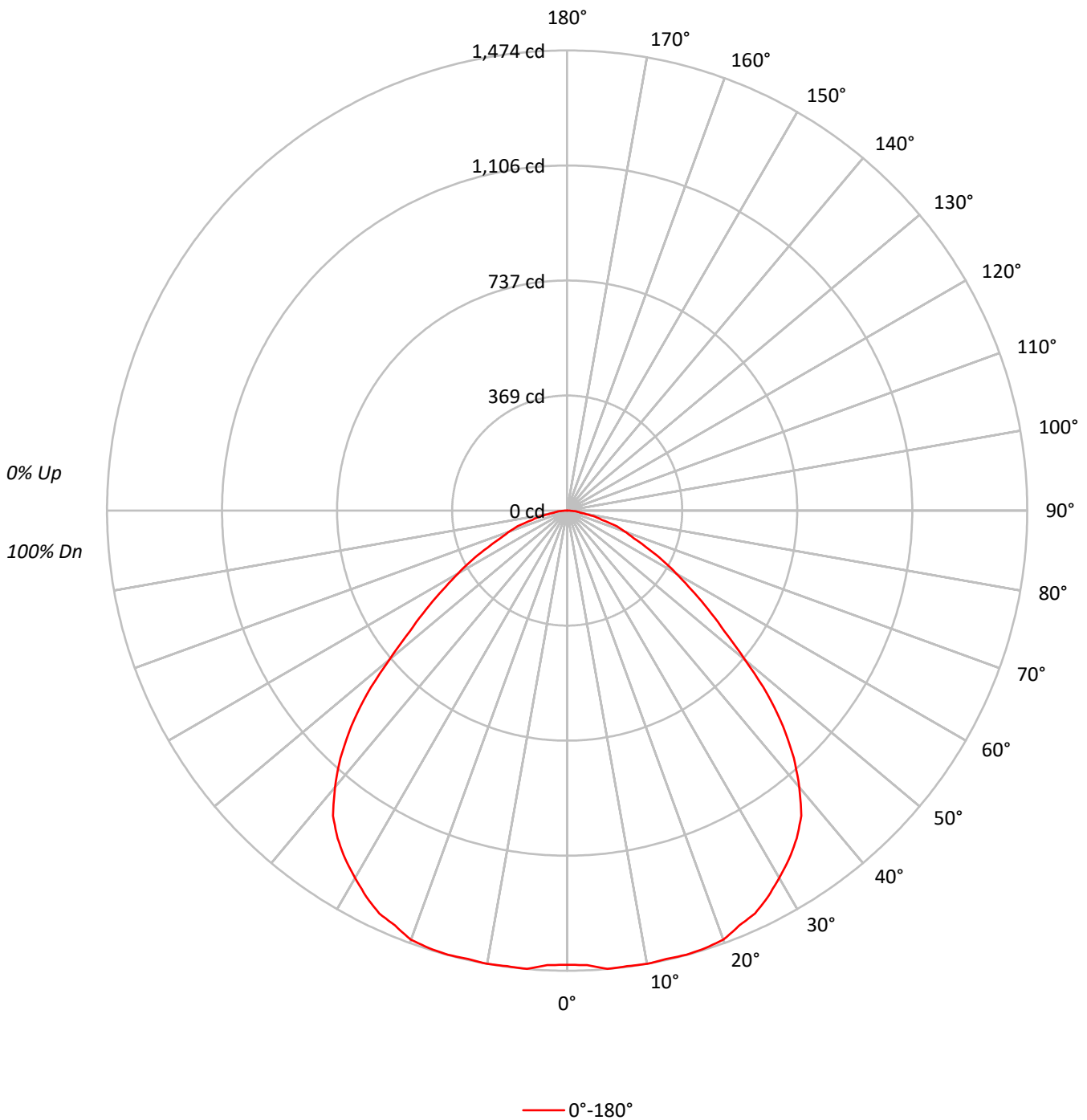
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	44861
5°	45614
10°	46163
15°	47018
20°	48009
25°	48447
30°	48372
35°	48252
40°	46574
45°	42654
50°	35634
55°	29628
60°	24897
65°	20569
70°	17689
75°	13880
80°	9607
85°	10119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	3.8
10°-20°	416.8	11.3
20°-30°	654.5	17.7
30°-40°	797.8	21.6
40°-50°	745.6	20.2
50°-60°	497.4	13.5
60°-70°	286.1	7.7
70°-80°	132.0	3.6
80°-90°	26.8	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°	1211.6	32.8
0°-40°	2009.4	54.3
0°-60°	3252.4	88.0
0°-90°	3697.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3697.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1455	
5°	1474	140
15°	1473	417
25°	1424	654
35°	1282	798
45°	978	746
55°	551	497
65°	282	286
75°	116	132
85°	29	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1454.8
2.5°	1457.0
5°	1473.6
7.5°	1472.0
10°	1474.3
12.5°	1471.3
15°	1472.8
17.5°	1469.8
20°	1463.0
22.5°	1439.0
25°	1423.9
27.5°	1393.9
30°	1358.5
32.5°	1323.2
35°	1281.8
37.5°	1232.2
40°	1157.0
42.5°	1075.1
45°	978.1
47.5°	870.6
50°	742.8
52.5°	634.5
55°	551.1
57.5°	471.4
60°	403.7
62.5°	345.1
65°	281.9
67.5°	231.6
70°	196.2
72.5°	166.9
75°	116.5
77.5°	92.5
80°	54.1
82.5°	34.6
85°	28.6
87.5°	8.3
90°	0.0

(END OF REPORT)