

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: P210525

Luminaire Tested: **PR8S15D010 - PR8M12MDMB - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29044)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR8S15D010 - PR8M12MDMB - 3500K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1387.4 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

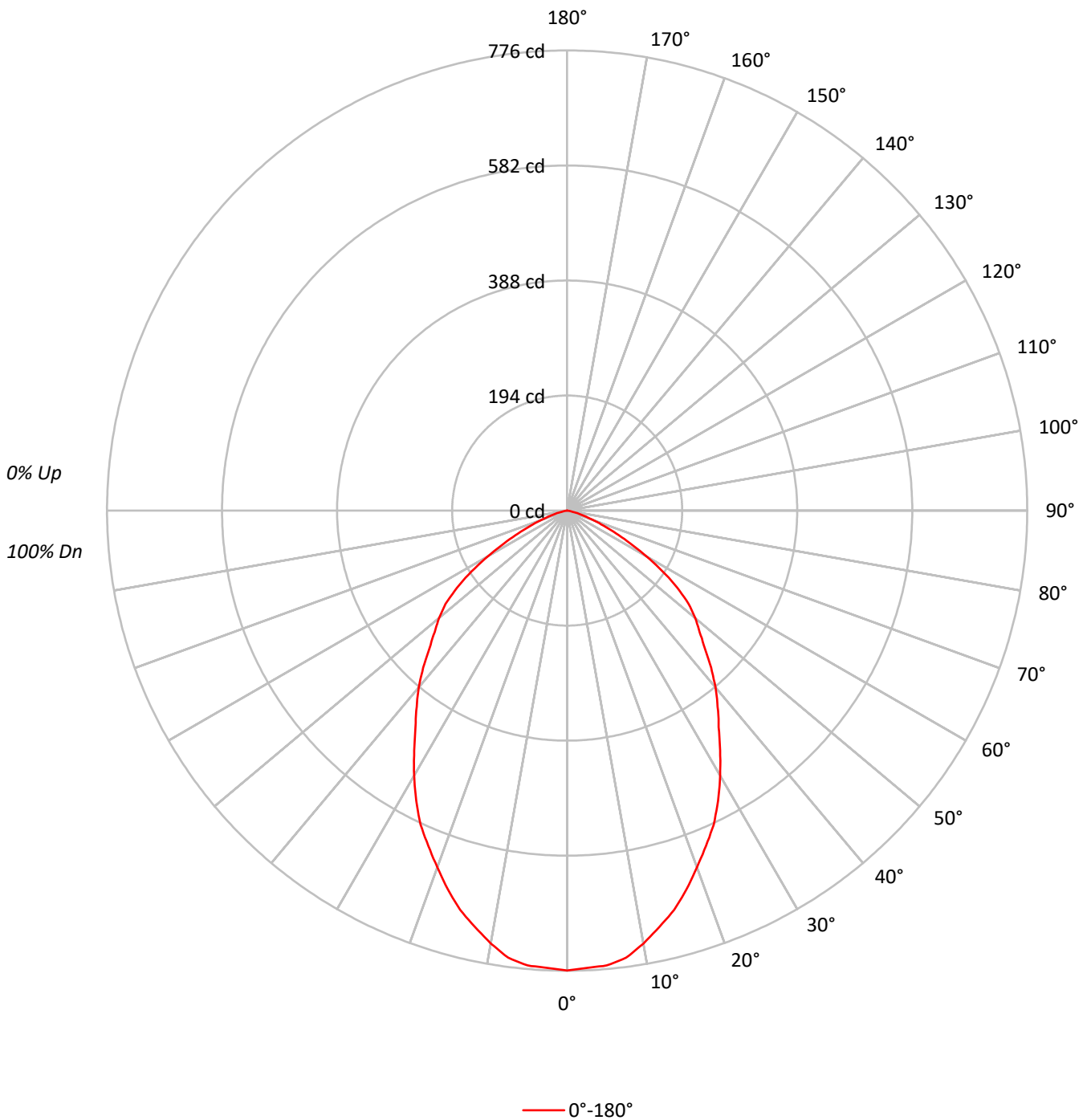
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	62		70	65	61	60
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	41		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	59	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23917
5°	23835
10°	23212
15°	22254
20°	20999
25°	19887
30°	18373
35°	16778
40°	15659
45°	14304
50°	13528
55°	12182
60°	9522
65°	6633
70°	4210
75°	2371
80°	657
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	5.2
10°-20°	195.3	14.1
20°-30°	267.5	19.3
30°-40°	280.4	20.2
40°-50°	255.5	18.4
50°-60°	199.4	14.4
60°-70°	92.9	6.7
70°-80°	23.1	1.7
80°-90°	0.7	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°	535.4	38.6
0°-40°	815.8	58.8
0°-60°	1270.7	91.6
0°-90°	1387.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1387.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	776	
5°	770	73
15°	697	195
25°	584	267
35°	446	280
45°	328	256
55°	227	199
65°	91	93
75°	20	23
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	775.6
2.5°	771.8
5°	770.0
7.5°	760.6
10°	741.3
12.5°	718.9
15°	697.1
17.5°	669.8
20°	639.9
22.5°	611.9
25°	584.5
27.5°	551.5
30°	516.0
32.5°	479.9
35°	445.7
37.5°	417.0
40°	389.0
42.5°	359.2
45°	328.0
47.5°	303.1
50°	282.0
52.5°	258.3
55°	226.6
57.5°	191.1
60°	154.4
62.5°	119.5
65°	90.9
67.5°	66.0
70°	46.7
72.5°	31.7
75°	19.9
77.5°	11.2
80°	3.7
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)