

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: P210116

Luminaire Tested: **PR815D010 - PR8M12MDMB - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210116
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: PR815D010 - PR8M12MDMB - 4000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1539.8 lumens
Efficiency: N/A
Efficacy: 102.7 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

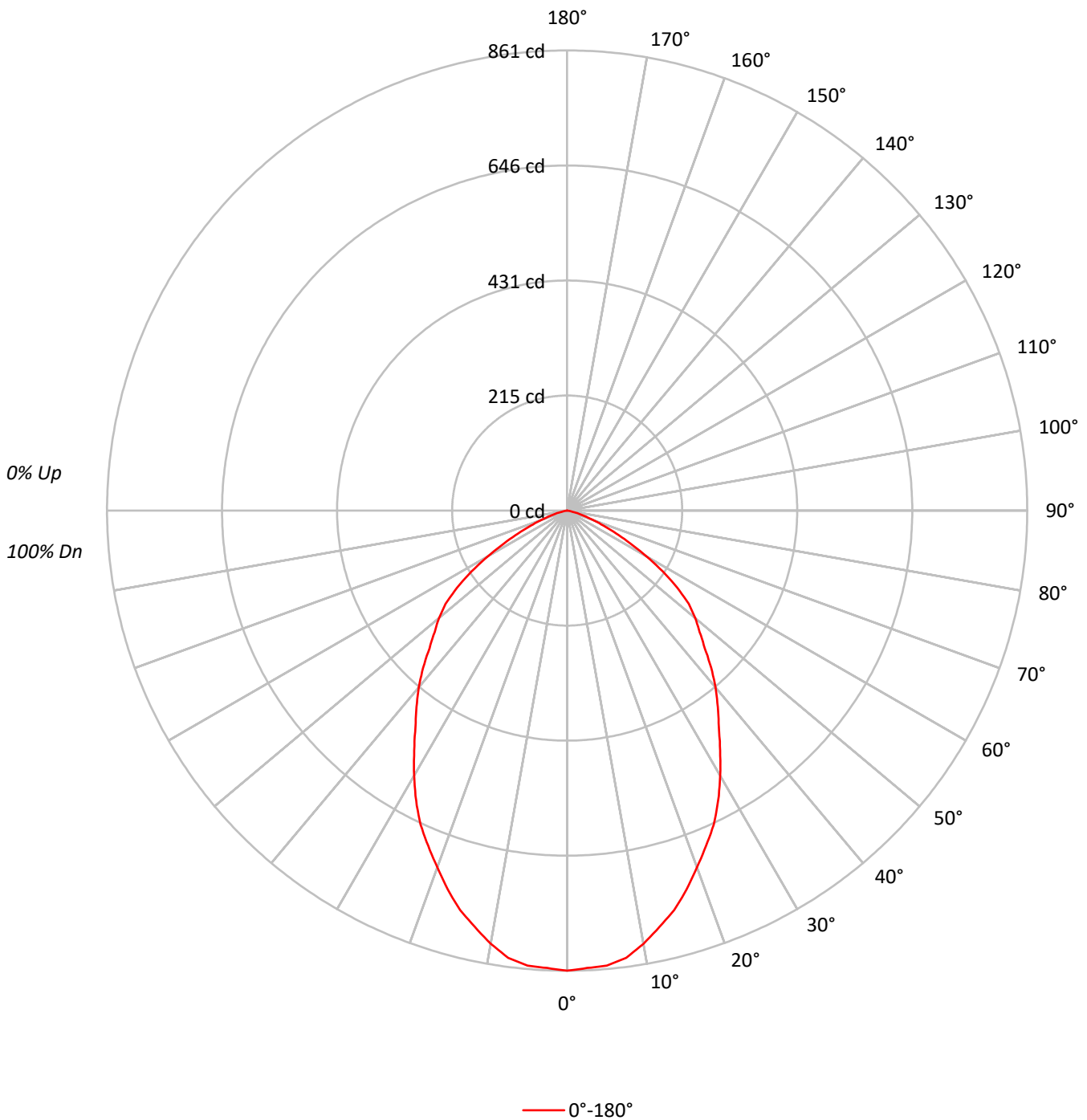
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26544
5°	26450
10°	25764
15°	24700
20°	23305
25°	22071
30°	20392
35°	18619
40°	17382
45°	15878
50°	15011
55°	13521
60°	10565
65°	7362
70°	4670
75°	2633
80°	728
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	5.2
10°-20°	216.8	14.1
20°-30°	296.9	19.3
30°-40°	311.2	20.2
40°-50°	283.6	18.4
50°-60°	221.3	14.4
60°-70°	103.0	6.7
70°-80°	25.6	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°	594.2	38.6
0°-40°	905.4	58.8
0°-60°	1410.3	91.6
0°-90°	1539.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1539.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	861	
5°	854	81
15°	774	217
25°	649	297
35°	495	311
45°	364	284
55°	252	221
65°	101	103
75°	22	26
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	860.8
2.5°	856.6
5°	854.5
7.5°	844.2
10°	822.8
12.5°	797.9
15°	773.7
17.5°	743.3
20°	710.2
22.5°	679.1
25°	648.7
27.5°	612.1
30°	572.7
32.5°	532.6
35°	494.6
37.5°	462.8
40°	431.8
42.5°	398.6
45°	364.1
47.5°	336.4
50°	312.9
52.5°	286.7
55°	251.5
57.5°	212.1
60°	171.3
62.5°	132.6
65°	100.9
67.5°	73.2
70°	51.8
72.5°	35.2
75°	22.1
77.5°	12.4
80°	4.1
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)