

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: P210526

Luminaire Tested: **PR8S15D010 - PR8M12MDMB - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210526
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 - 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: 1302.1 lumens
Efficiency: N/A
Efficacy: 86.8 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

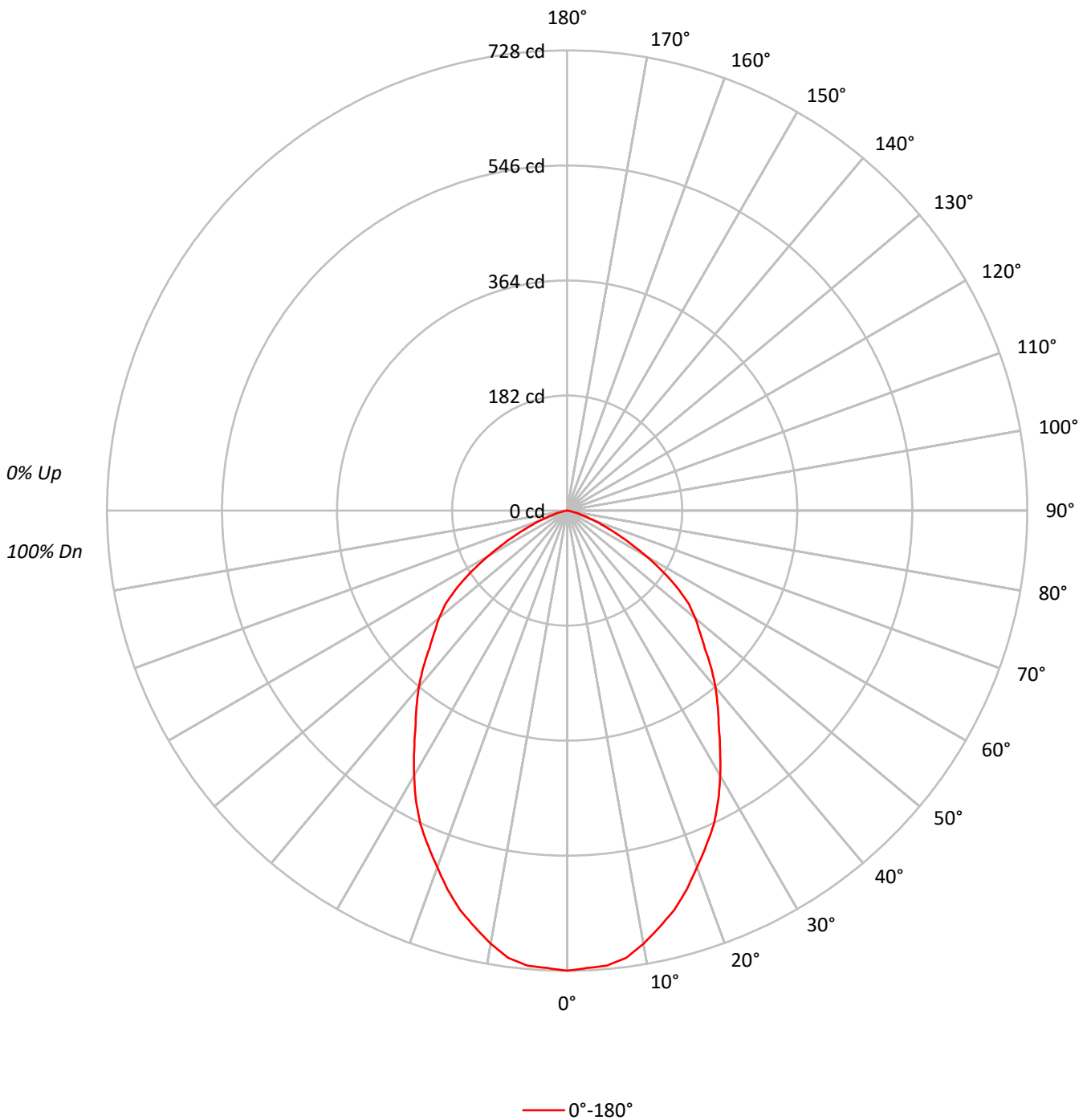
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210526

CATALOG NUMBER: PR8S15D010 - PR8M12MDMB - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P210526

CATALOG NUMBER: PR8S15D010 - PR8M12MDMB - 4000K

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°	22446
5°	22367
10°	21784
15°	20888
20°	19706
25°	18662
30°	17244
35°	15747
40°	14697
45°	13427
50°	12694
55°	11430
60°	8936
65°	6224
70°	3949
75°	2228
80°	622
85°	0



TEST NUMBER: P210526

CATALOG NUMBER: PR8S15D010 - PR8M12MDMB - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	5.2
10°-20°	183.3	14.1
20°-30°	251.0	19.3
30°-40°	263.1	20.2
40°-50°	239.8	18.4
50°-60°	187.1	14.4
60°-70°	87.1	6.7
70°-80°	21.7	1.7
80°-90°	0.6	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°	502.5	38.6
0°-40°	765.6	58.8
0°-60°	1192.6	91.6
0°-90°	1302.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1302.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	728	
5°	723	68
15°	654	183
25°	548	251
35°	418	263
45°	308	240
55°	213	187
65°	85	87
75°	19	22
85°	0	1
90°	0	



TEST NUMBER: P210526

CATALOG NUMBER: PR8S15D010 - PR8M12MDMB - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	727.9
2.5°	724.4
5°	722.6
7.5°	713.8
10°	695.7
12.5°	674.7
15°	654.3
17.5°	628.6
20°	600.5
22.5°	574.2
25°	548.5
27.5°	517.6
30°	484.3
32.5°	450.4
35°	418.3
37.5°	391.4
40°	365.1
42.5°	337.1
45°	307.9
47.5°	284.5
50°	264.6
52.5°	242.4
55°	212.6
57.5°	179.3
60°	144.9
62.5°	112.2
65°	85.3
67.5°	61.9
70°	43.8
72.5°	29.8
75°	18.7
77.5°	10.5
80°	3.5
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)