

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: P210521

Luminaire Tested: **PR8S10D010 - PR8M12MDMB - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210521
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: PR8S10D010 - 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: 959.2 lumens
Efficiency: N/A
Efficacy: 91.3 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

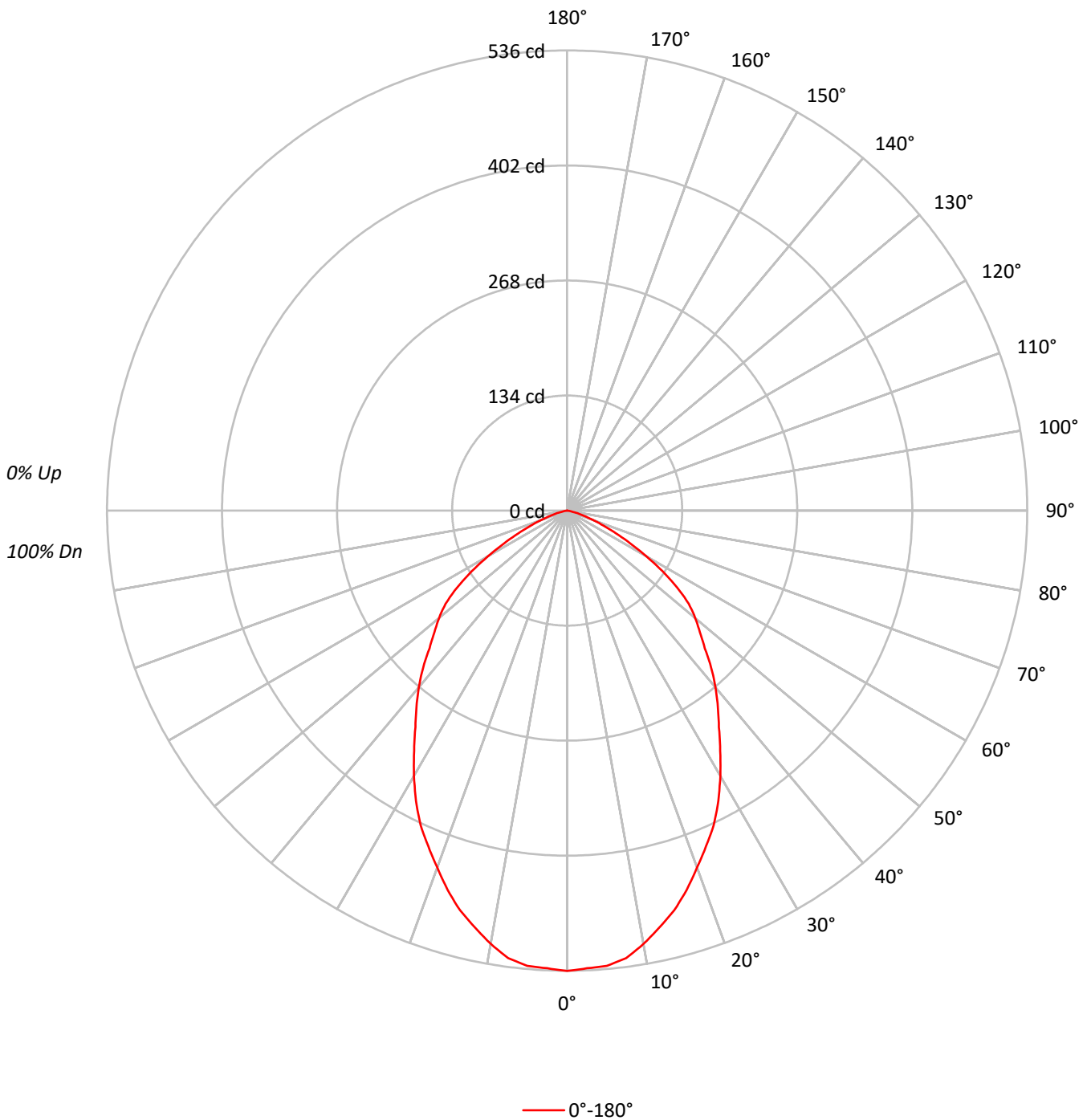
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210521

CATALOG NUMBER: PR8S10D010 - PR8M12MDMB - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P210521

CATALOG NUMBER: PR8S10D010 - 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°	16534
5°	16477
10°	16047
15°	15387
20°	14517
25°	13749
30°	12704
35°	11598
40°	10828
45°	9891
50°	9350
55°	8419
60°	6580
65°	4582
70°	2912
75°	1644
80°	462
85°	0



TEST NUMBER: P210521

CATALOG NUMBER: PR8S10D010 - PR8M12MDMB - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	5.2
10°-20°	135.0	14.1
20°-30°	184.9	19.3
30°-40°	193.8	20.2
40°-50°	176.7	18.4
50°-60°	137.9	14.4
60°-70°	64.2	6.7
70°-80°	16.0	1.7
80°-90°	0.5	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°	370.2	38.6
0°-40°	564.0	58.8
0°-60°	878.5	91.6
0°-90°	959.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	959.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	536	
5°	532	50
15°	482	135
25°	404	185
35°	308	194
45°	227	177
55°	157	138
65°	63	64
75°	14	16
85°	0	0
90°	0	



TEST NUMBER: P210521

CATALOG NUMBER: PR8S10D010 - PR8M12MDMB - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	536.2
2.5°	533.6
5°	532.3
7.5°	525.9
10°	512.5
12.5°	497.1
15°	482.0
17.5°	463.1
20°	442.4
22.5°	423.0
25°	404.1
27.5°	381.3
30°	356.8
32.5°	331.8
35°	308.1
37.5°	288.3
40°	269.0
42.5°	248.3
45°	226.8
47.5°	209.6
50°	194.9
52.5°	178.6
55°	156.6
57.5°	132.1
60°	106.7
62.5°	82.6
65°	62.8
67.5°	45.6
70°	32.3
72.5°	21.9
75°	13.8
77.5°	7.7
80°	2.6
82.5°	0.4
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)