

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: P210581

Luminaire Tested: **PR8S10D010 - PR8M12WDMMS - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210581
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: PR8S10D010 - PR8M12WDMMS - 4000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE METALLIC SILVER FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1007.9 lumens
Efficiency: N/A
Efficacy: 96.0 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

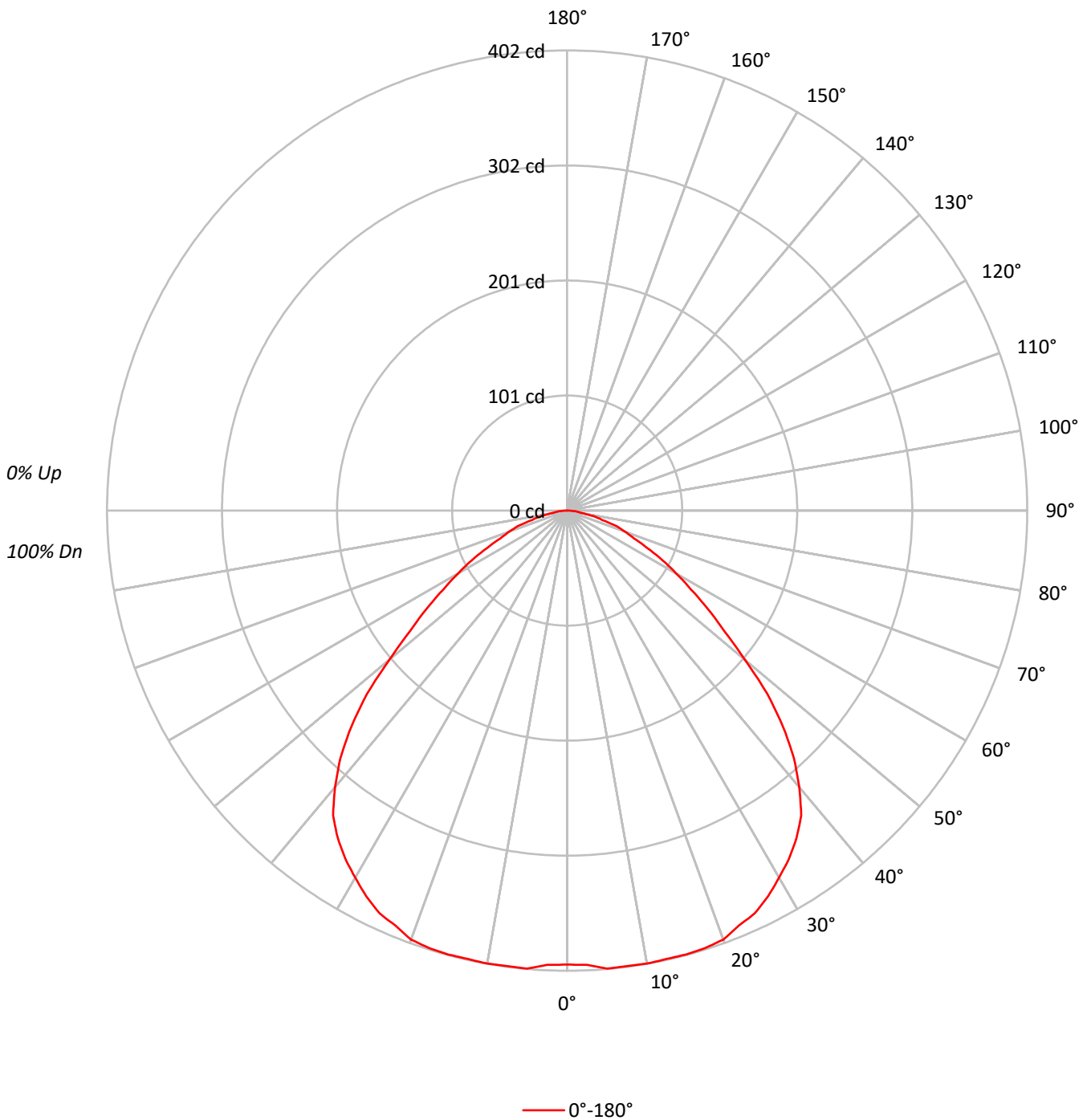
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210581

CATALOG NUMBER: PR8S10D010 - PR8M12WDMMS - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P210581

CATALOG NUMBER: PR8S10D010 - PR8M12WDMMS - 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	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°	12230
5°	12434
10°	12584
15°	12818
20°	13087
25°	13208
30°	13185
35°	13153
40°	12696
45°	11626
50°	9714
55°	8075
60°	6790
65°	5611
70°	4824
75°	3789
80°	2628
85°	2760



TEST NUMBER: P210581

CATALOG NUMBER: PR8S10D010 - PR8M12WDMMS - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	3.8
10°-20°	113.6	11.3
20°-30°	178.4	17.7
30°-40°	217.5	21.6
40°-50°	203.3	20.2
50°-60°	135.6	13.5
60°-70°	78.0	7.7
70°-80°	36.0	3.6
80°-90°	7.3	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°	330.3	32.8
0°-40°	547.8	54.3
0°-60°	886.6	88.0
0°-90°	1007.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1007.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	397	
5°	402	38
15°	402	114
25°	388	178
35°	349	217
45°	267	203
55°	150	136
65°	77	78
75°	32	36
85°	8	7
90°	0	



TEST NUMBER: P210581

CATALOG NUMBER: PR8S10D010 - PR8M12WDMMS - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	396.6
2.5°	397.2
5°	401.7
7.5°	401.3
10°	401.9
12.5°	401.1
15°	401.5
17.5°	400.7
20°	398.8
22.5°	392.3
25°	388.2
27.5°	380.0
30°	370.3
32.5°	360.7
35°	349.4
37.5°	335.9
40°	315.4
42.5°	293.1
45°	266.6
47.5°	237.3
50°	202.5
52.5°	173.0
55°	150.2
57.5°	128.5
60°	110.1
62.5°	94.1
65°	76.9
67.5°	63.1
70°	53.5
72.5°	45.5
75°	31.8
77.5°	25.2
80°	14.8
82.5°	9.4
85°	7.8
87.5°	2.3
90°	0.0

(END OF REPORT)