

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: P210096

Luminaire Tested: **PR820D010 - PR8M12MDMW - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210096
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: PR820D010 - PR8M12MDMW - 4000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2313.0 lumens
Efficiency: N/A
Efficacy: 105.1 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

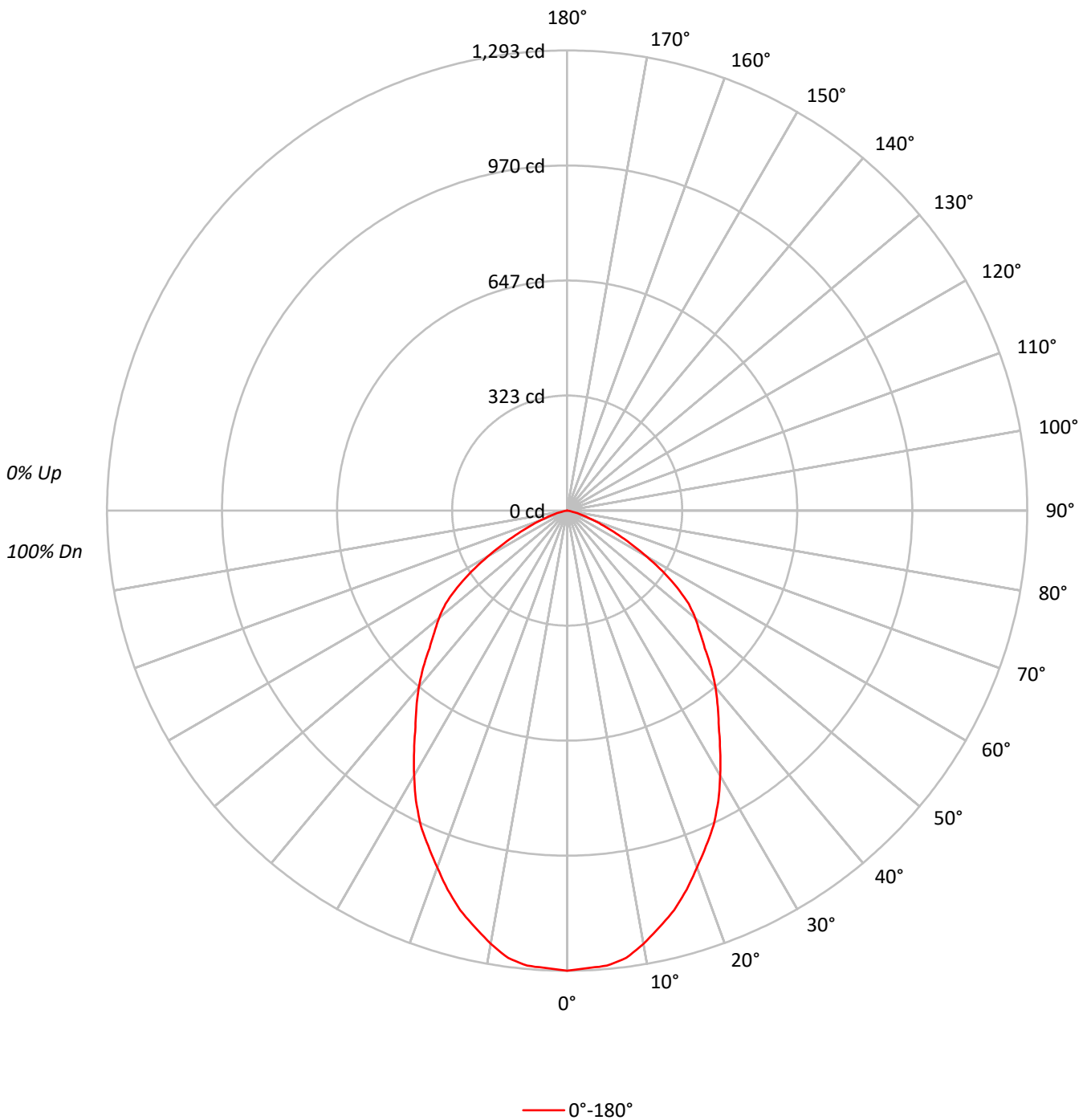
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210096

CATALOG NUMBER: PR820D010 - PR8M12MDMW - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P210096

CATALOG NUMBER: PR820D010 - PR8M12MDMW - 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°	39871
5°	39736
10°	38702
15°	37105
20°	35007
25°	33156
30°	30632
35°	27970
40°	26109
45°	23850
50°	22552
55°	20306
60°	15875
65°	11054
70°	7014
75°	3956
80°	1101
85°	0



TEST NUMBER: P210096

CATALOG NUMBER: PR820D010 - PR8M12MDMW - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	5.2
10°-20°	325.6	14.1
20°-30°	445.9	19.3
30°-40°	467.4	20.2
40°-50°	426.0	18.4
50°-60°	332.5	14.4
60°-70°	154.8	6.7
70°-80°	38.6	1.7
80°-90°	1.1	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°	892.6	38.6
0°-40°	1360.1	58.8
0°-60°	2118.6	91.6
0°-90°	2313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1293	
5°	1284	121
15°	1162	326
25°	974	446
35°	743	467
45°	547	426
55°	378	333
65°	152	155
75°	33	39
85°	0	1
90°	0	



TEST NUMBER: P210096

CATALOG NUMBER: PR820D010 - PR8M12MDMW - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1293.0
2.5°	1286.8
5°	1283.7
7.5°	1268.1
10°	1236.0
12.5°	1198.6
15°	1162.3
17.5°	1116.6
20°	1066.8
22.5°	1020.1
25°	974.5
27.5°	919.5
30°	860.3
32.5°	800.1
35°	743.0
37.5°	695.3
40°	648.6
42.5°	598.8
45°	546.9
47.5°	505.4
50°	470.1
52.5°	430.7
55°	377.7
57.5°	318.6
60°	257.4
62.5°	199.2
65°	151.5
67.5°	110.0
70°	77.8
72.5°	52.9
75°	33.2
77.5°	18.7
80°	6.2
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)