

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: P210084

Luminaire Tested: **PR810D010 - PR8M12MDMW - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210084
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: PR810D010 - PR8M12MDMW - 3000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1176.4 lumens
Efficiency: N/A
Efficacy: 112.0 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

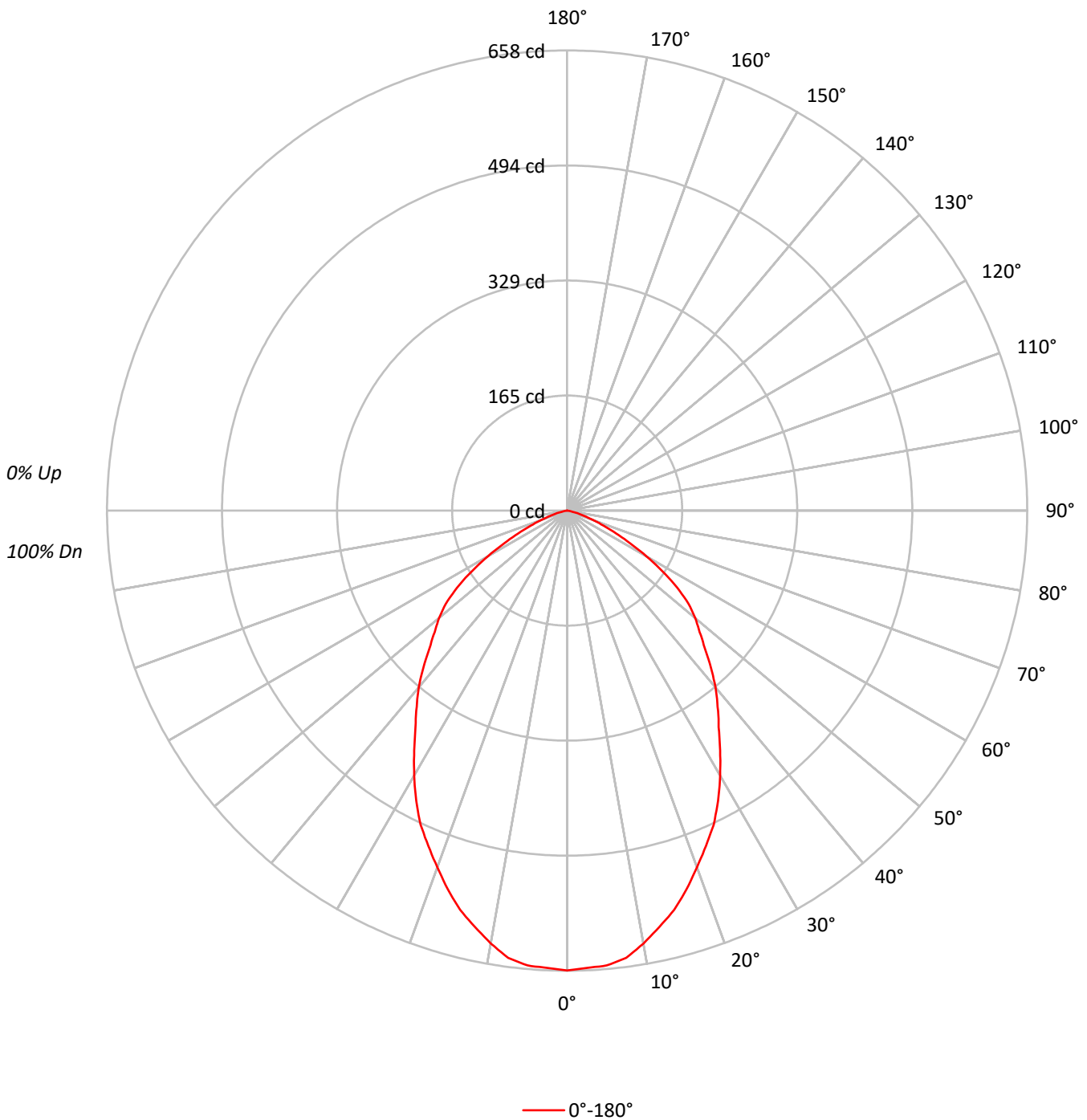
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20278
5°	20210
10°	19683
15°	18870
20°	17806
25°	16862
30°	15578
35°	14226
40°	13280
45°	12132
50°	11470
55°	10328
60°	8073
65°	5626
70°	3570
75°	2014
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	5.2
10°-20°	165.6	14.1
20°-30°	226.8	19.3
30°-40°	237.7	20.2
40°-50°	216.7	18.4
50°-60°	169.1	14.4
60°-70°	78.7	6.7
70°-80°	19.6	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°	454.0	38.6
0°-40°	691.7	58.8
0°-60°	1077.5	91.6
0°-90°	1176.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1176.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	658	
5°	653	62
15°	591	166
25°	496	227
35°	378	238
45°	278	217
55°	192	169
65°	77	79
75°	17	20
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	657.6
2.5°	654.5
5°	652.9
7.5°	645.0
10°	628.6
12.5°	609.6
15°	591.1
17.5°	567.9
20°	542.6
22.5°	518.8
25°	495.6
27.5°	467.6
30°	437.5
32.5°	406.9
35°	377.9
37.5°	353.6
40°	329.9
42.5°	304.5
45°	278.2
47.5°	257.0
50°	239.1
52.5°	219.0
55°	192.1
57.5°	162.0
60°	130.9
62.5°	101.3
65°	77.1
67.5°	55.9
70°	39.6
72.5°	26.9
75°	16.9
77.5°	9.5
80°	3.2
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)