

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: P210278

Luminaire Tested: **PR810D010 - PR8M12MDMW - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210278
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 - 3500K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1326.3 lumens
Efficiency: N/A
Efficacy: 126.3 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

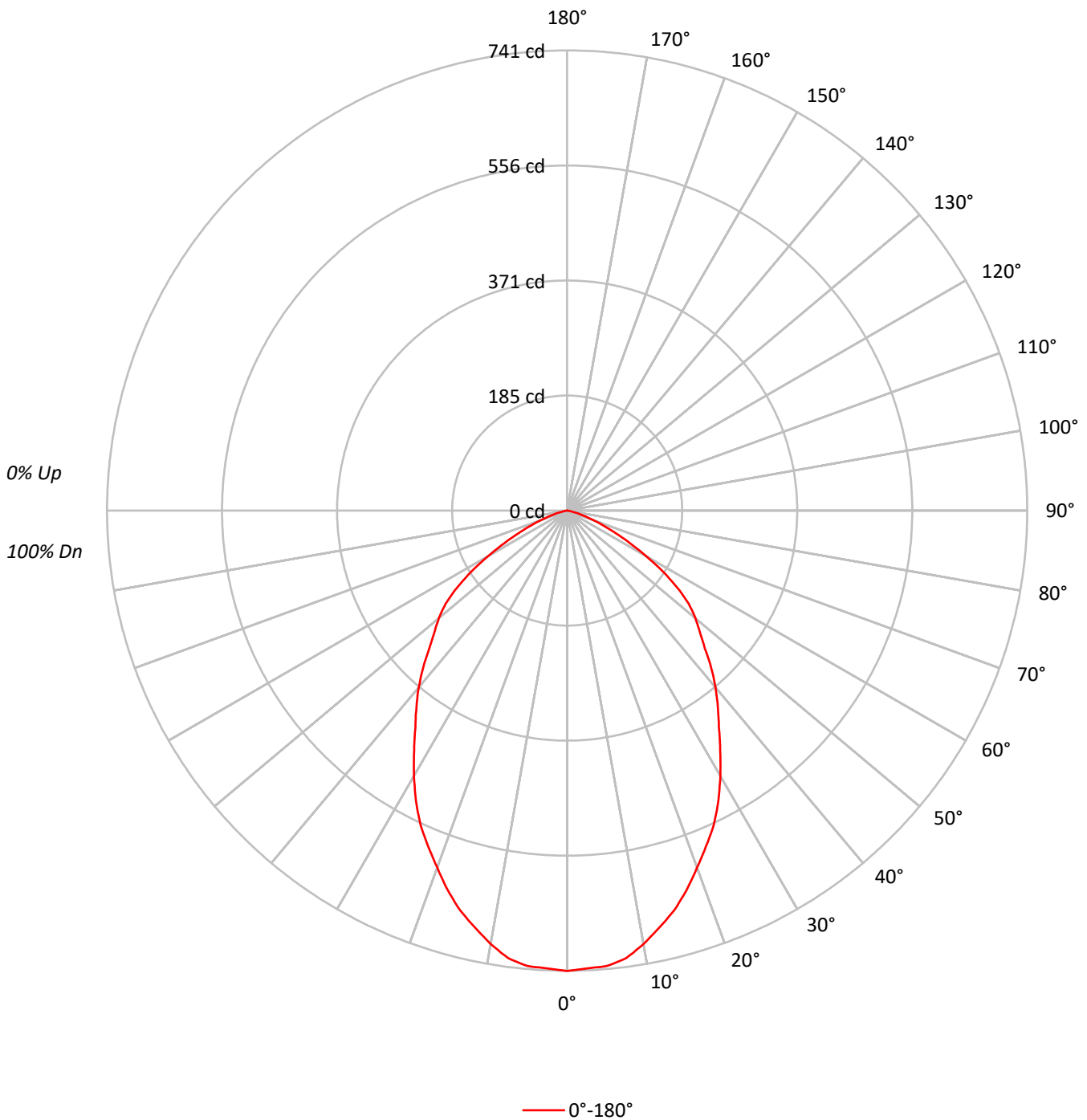
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22862
5°	22785
10°	22191
15°	21274
20°	20073
25°	19009
30°	17565
35°	16040
40°	14970
45°	13676
50°	12933
55°	11645
60°	9103
65°	6341
70°	4021
75°	2264
80°	639
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	5.2
10°-20°	186.7	14.1
20°-30°	255.7	19.3
30°-40°	268.0	20.2
40°-50°	244.3	18.4
50°-60°	190.7	14.4
60°-70°	88.8	6.7
70°-80°	22.1	1.7
80°-90°	0.7	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°	511.8	38.6
0°-40°	779.9	58.8
0°-60°	1214.8	91.6
0°-90°	1326.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1326.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	741	
5°	736	69
15°	666	187
25°	559	256
35°	426	268
45°	314	244
55°	217	191
65°	87	89
75°	19	22
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	741.4
2.5°	737.9
5°	736.1
7.5°	727.1
10°	708.7
12.5°	687.3
15°	666.4
17.5°	640.3
20°	611.7
22.5°	584.9
25°	558.7
27.5°	527.2
30°	493.3
32.5°	458.8
35°	426.1
37.5°	398.7
40°	371.9
42.5°	343.3
45°	313.6
47.5°	289.8
50°	269.6
52.5°	246.9
55°	216.6
57.5°	182.7
60°	147.6
62.5°	114.2
65°	86.9
67.5°	63.1
70°	44.6
72.5°	30.3
75°	19.0
77.5°	10.7
80°	3.6
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)