

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: P345178

Luminaire Tested: **PR4FS12D010 PR4M12MD8FSMW 1000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12MD8FSMW 1000Lm3000K
Description: PR4 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 916.4 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.02
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

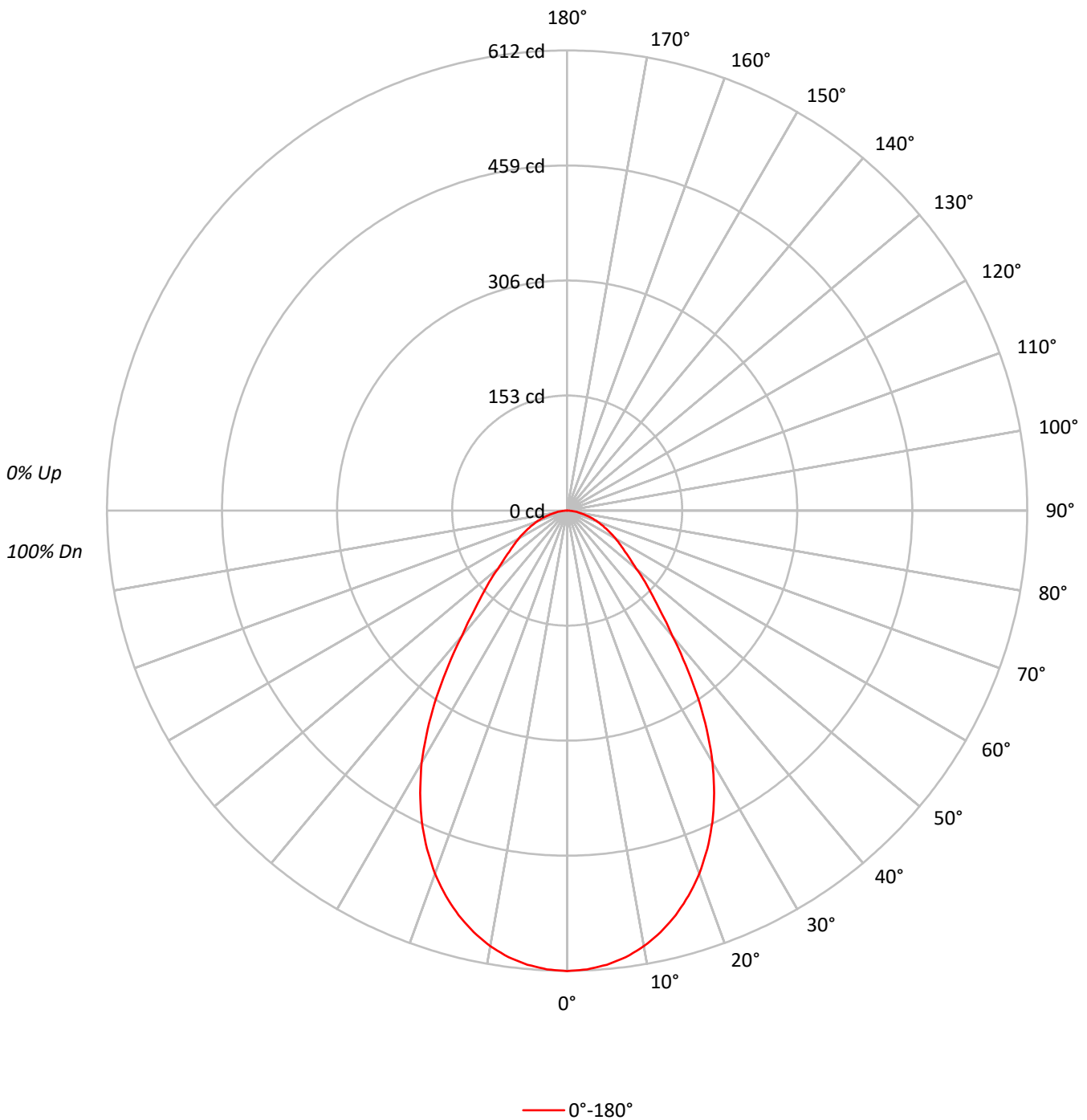
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	99	101	98	96		97	95	93		94	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		72	67	64	62
5	83	73	65	59	81	72	64	59	70	63	59		68	62	58		66	61	57	56
6	78	67	59	54	76	66	59	53	64	58	53		63	57	53		61	56	52	50
7	73	62	54	49	72	61	54	49	59	53	48		58	52	48		57	52	48	46
8	69	57	50	45	67	56	49	44	55	49	44		54	48	44		53	48	44	42
9	65	53	46	41	64	53	46	41	51	45	41		50	45	41		50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38		47	42	38		46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53575
5°	53235
10°	52252
15°	50466
20°	47845
25°	44116
30°	39067
35°	32344
40°	24938
45°	19916
50°	16316
55°	14167
60°	12998
65°	11880
70°	10946
75°	9497
80°	8513
85°	6824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	6.3
10°-20°	156.2	17.0
20°-30°	208.6	22.8
30°-40°	188.0	20.5
40°-50°	126.2	13.8
50°-60°	84.3	9.2
60°-70°	57.1	6.2
70°-80°	30.4	3.3
80°-90°	8.3	0.9
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°	422.2	46.1
0°-40°	610.2	66.6
0°-60°	820.7	89.5
0°-90°	916.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	916.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	612	
5°	606	57
15°	557	156
25°	457	209
35°	303	188
45°	161	126
55°	93	84
65°	57	57
75°	28	30
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	612.5
2.5°	610.8
5°	606.3
7.5°	599.0
10°	588.3
12.5°	574.2
15°	557.3
17.5°	537.1
20°	514.0
22.5°	487.0
25°	457.1
27.5°	423.4
30°	386.8
32.5°	345.7
35°	302.9
37.5°	259.0
40°	218.4
42.5°	186.3
45°	161.0
47.5°	140.7
50°	119.9
52.5°	104.7
55°	92.9
57.5°	82.8
60°	74.3
62.5°	65.3
65°	57.4
67.5°	49.5
70°	42.8
72.5°	35.5
75°	28.1
77.5°	22.0
80°	16.9
82.5°	11.8
85°	6.8
87.5°	3.4
90°	0.0

(END OF REPORT)