

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: P345180

Luminaire Tested: **PR4FS12D010 PR4M12MD8FSMW 1000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345180
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 1000Lm4000K
Description: PR4 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 972.7 lumens
Efficiency: N/A
Efficacy: 93.5 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

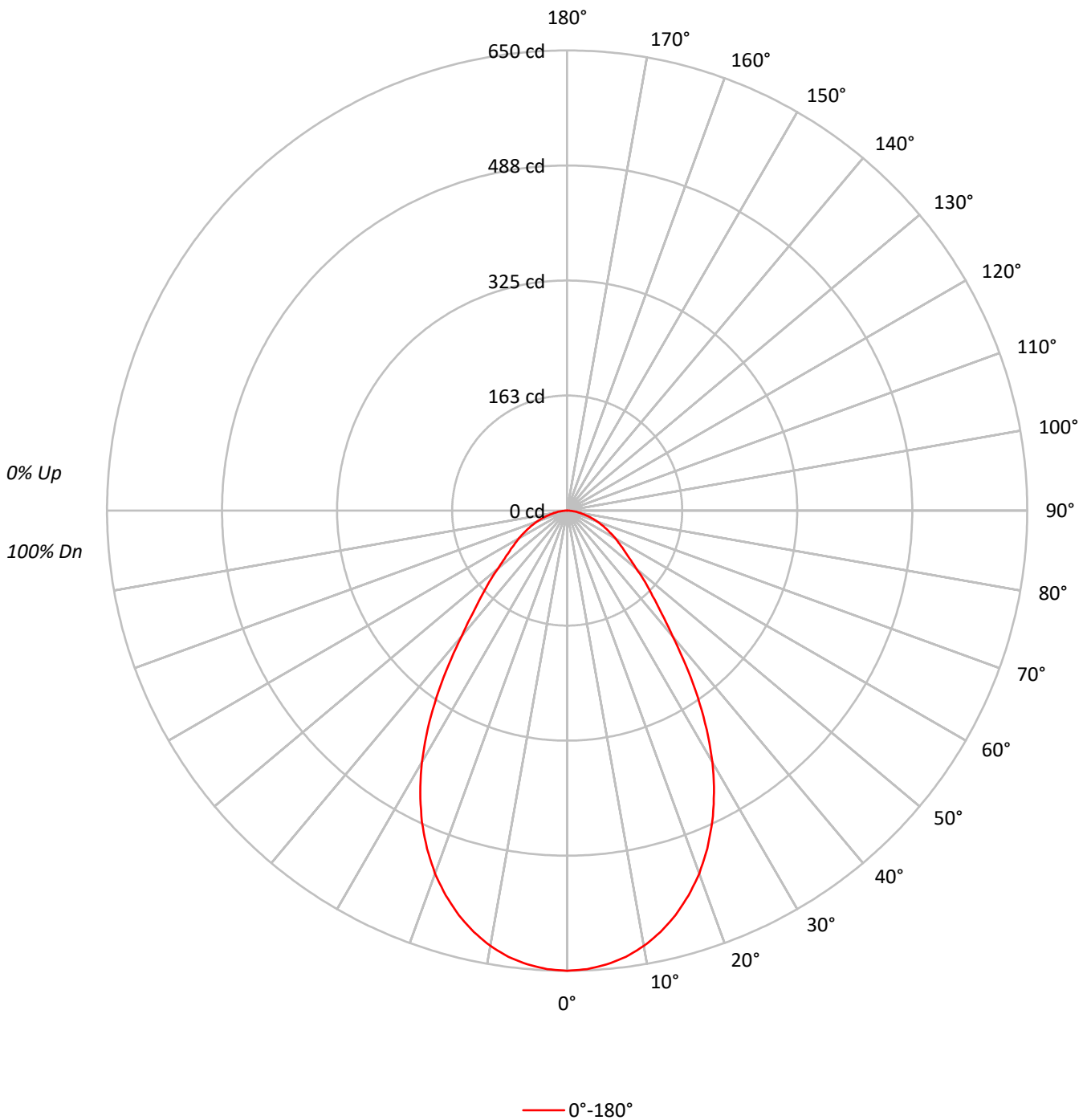
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	56864
5°	56502
10°	55458
15°	53572
20°	50786
25°	46828
30°	41461
35°	34330
40°	26468
45°	21140
50°	17323
55°	15036
60°	13803
65°	12604
70°	11611
75°	10105
80°	9017
85°	7226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	6.3
10°-20°	165.8	17.0
20°-30°	221.4	22.8
30°-40°	199.5	20.5
40°-50°	134.0	13.8
50°-60°	89.4	9.2
60°-70°	60.6	6.2
70°-80°	32.3	3.3
80°-90°	8.8	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°	448.1	46.1
0°-40°	647.6	66.6
0°-60°	871.0	89.6
0°-90°	972.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	972.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	650	
5°	644	61
15°	592	166
25°	485	221
35°	322	200
45°	171	134
55°	99	89
65°	61	61
75°	30	32
85°	7	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	650.1
2.5°	648.3
5°	643.5
7.5°	635.8
10°	624.4
12.5°	609.5
15°	591.6
17.5°	570.0
20°	545.6
22.5°	516.9
25°	485.2
27.5°	449.3
30°	410.5
32.5°	366.9
35°	321.5
37.5°	274.9
40°	231.8
42.5°	197.8
45°	170.9
47.5°	149.4
50°	127.3
52.5°	111.1
55°	98.6
57.5°	87.8
60°	78.9
62.5°	69.3
65°	60.9
67.5°	52.6
70°	45.4
72.5°	37.6
75°	29.9
77.5°	23.3
80°	17.9
82.5°	12.5
85°	7.2
87.5°	3.6
90°	0.0

(END OF REPORT)