

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: P345187

Luminaire Tested: **PR4FS12D010 PR4M12MD9FSMW 1500Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345187
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 PR4M12MD9FSMW 1500Lm3000K
Description: PR4 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1033.1 lumens
Efficiency: N/A
Efficacy: 74.3 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

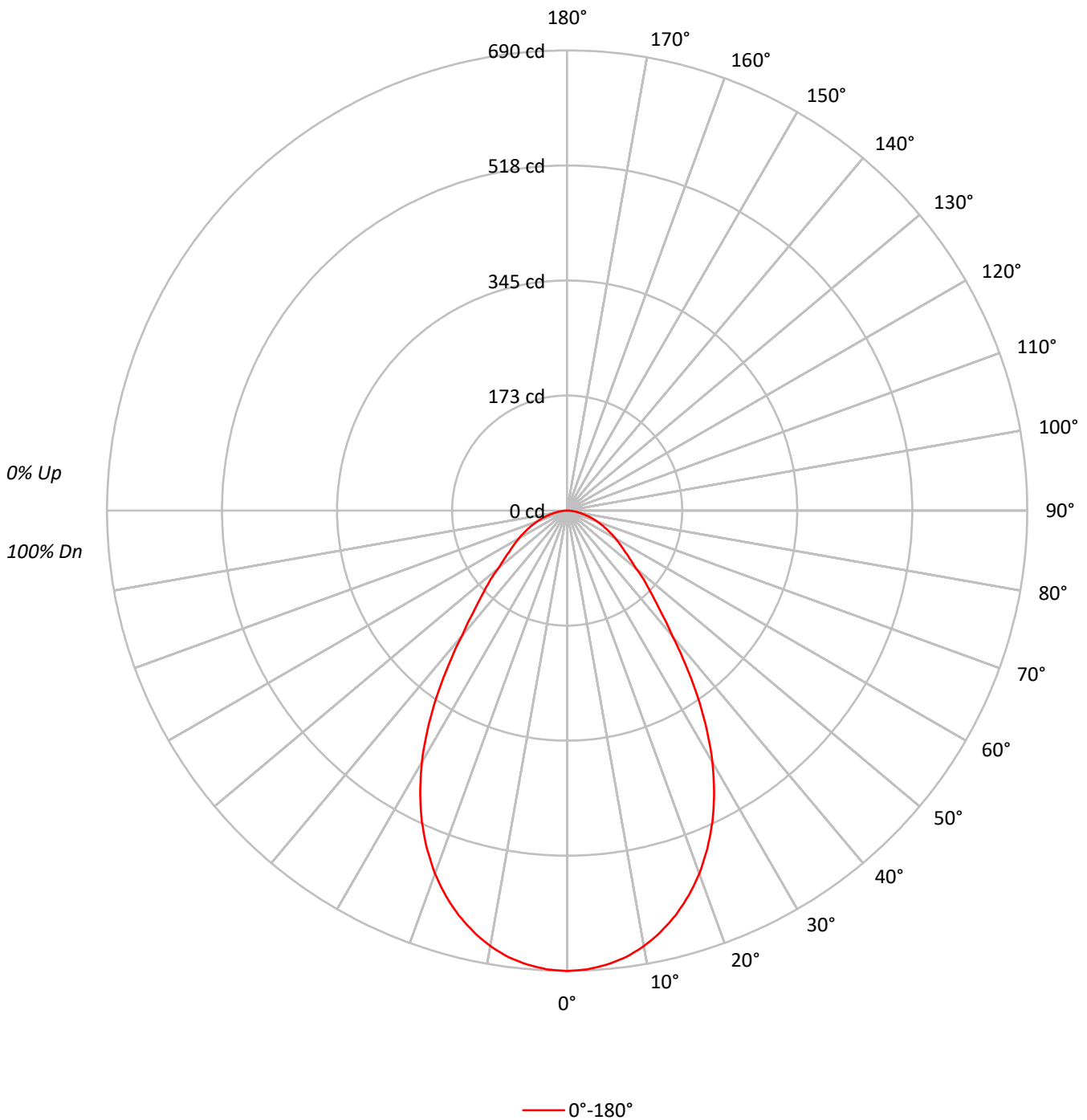
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	60398
5°	60014
10°	58905
15°	56896
20°	53932
25°	49733
30°	44036
35°	36455
40°	28112
45°	22452
50°	18398
55°	15967
60°	14660
65°	13391
70°	12327
75°	10713
80°	9571
85°	7627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	6.3
10°-20°	176.1	17.0
20°-30°	235.2	22.8
30°-40°	211.9	20.5
40°-50°	142.3	13.8
50°-60°	95.0	9.2
60°-70°	64.3	6.2
70°-80°	34.3	3.3
80°-90°	9.3	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°	475.9	46.1
0°-40°	687.8	66.6
0°-60°	925.1	89.6
0°-90°	1033.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1033.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	690	
5°	684	65
15°	628	176
25°	515	235
35°	341	212
45°	182	142
55°	105	95
65°	65	64
75°	32	34
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	690.5
2.5°	688.6
5°	683.5
7.5°	675.3
10°	663.2
12.5°	647.3
15°	628.3
17.5°	605.5
20°	579.4
22.5°	549.0
25°	515.3
27.5°	477.3
30°	436.0
32.5°	389.7
35°	341.4
37.5°	291.9
40°	246.2
42.5°	210.1
45°	181.5
47.5°	158.7
50°	135.2
52.5°	118.0
55°	104.7
57.5°	93.3
60°	83.8
62.5°	73.6
65°	64.7
67.5°	55.8
70°	48.2
72.5°	40.0
75°	31.7
77.5°	24.8
80°	19.0
82.5°	13.3
85°	7.6
87.5°	3.8
90°	0.0

(END OF REPORT)