

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: P345292

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSMW 1500Lm3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345292  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-4)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PR4FS12D010 PR4M12WD8FSMW 1500Lm3000K  
Description: PR4 WIDE 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: 1235.5 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.61 / 1.61 / 1.58  
Luminous Opening: Circular (Dia: 0.4' x H: 0')  
CIE Type: Direct

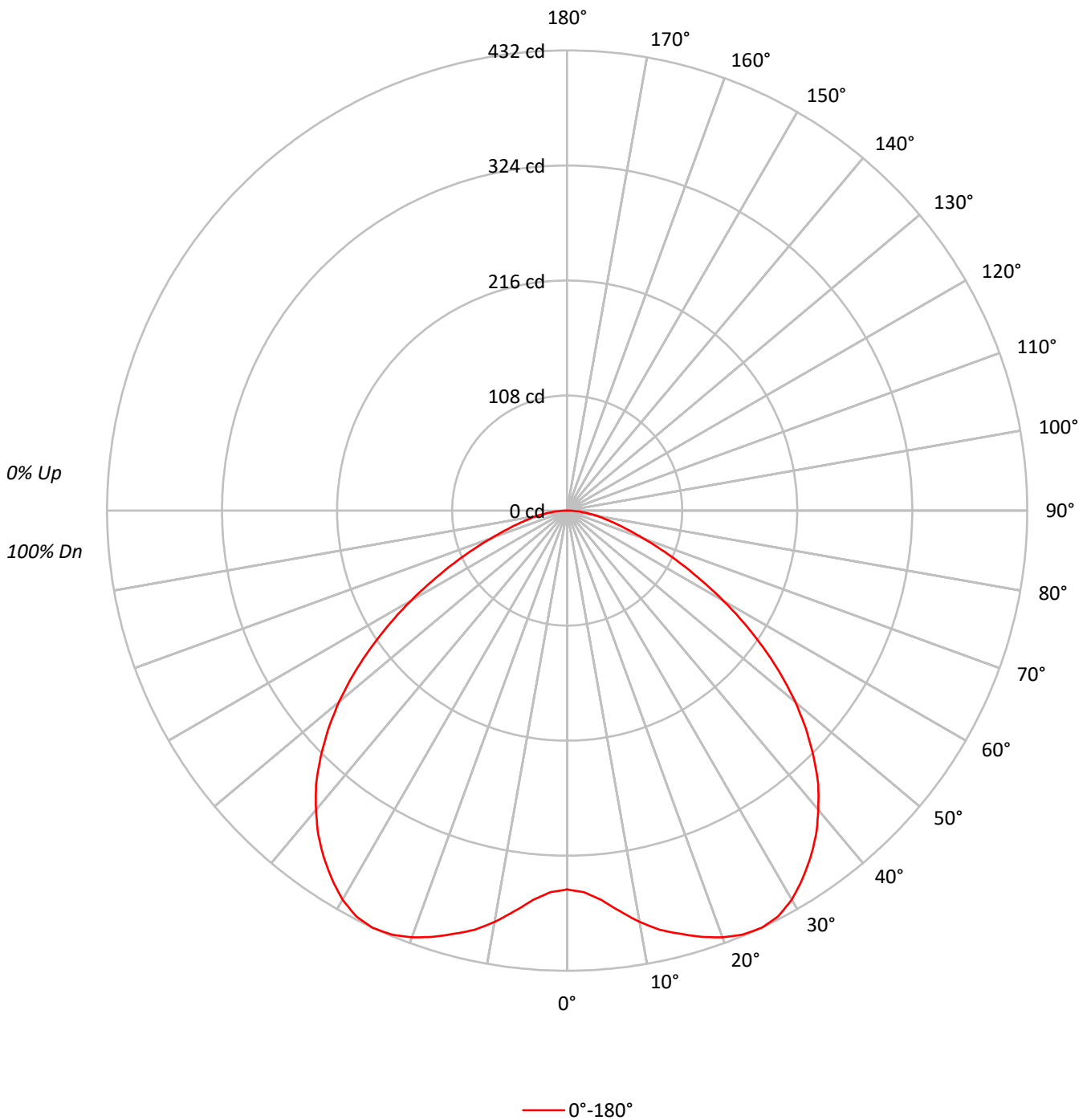
Input Watts (W): 13.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93		95	93	90		91	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	54	49		58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43		54	48	43		53	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	32
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	31104
5°	32206
10°	34826
15°	37254
20°	39681
25°	41712
30°	42602
35°	42499
40°	41882
45°	40487
50°	38061
55°	34373
60°	29670
65°	24319
70°	19411
75°	15850
80°	14255
85°	11943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.9	2.9
10°-20°	116.9	9.5
20°-30°	198.6	16.1
30°-40°	248.6	20.1
40°-50°	251.5	20.4
50°-60°	201.0	16.3
60°-70°	117.9	9.5
70°-80°	51.4	4.2
80°-90°	13.8	1.1
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°	351.4	28.4
0°-40°	599.9	48.6
0°-60°	1052.4	85.2
0°-90°	1235.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1235.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	356	
5°	367	36
15°	411	117
25°	432	199
35°	398	249
45°	327	251
55°	225	201
65°	118	118
75°	47	51
85°	12	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	355.6
2.5°	358.6
5°	366.8
7.5°	379.4
10°	392.1
12.5°	403.2
15°	411.4
17.5°	419.6
20°	426.3
22.5°	430.8
25°	432.2
27.5°	429.3
30°	421.8
32.5°	410.7
35°	398.0
37.5°	383.9
40°	366.8
42.5°	348.9
45°	327.3
47.5°	304.3
50°	279.7
52.5°	253.0
55°	225.4
57.5°	197.2
60°	169.6
62.5°	142.1
65°	117.5
67.5°	95.2
70°	75.9
72.5°	59.5
75°	46.9
77.5°	36.5
80°	28.3
82.5°	20.1
85°	11.9
87.5°	4.5
90°	0.0

(END OF REPORT)