

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: P345293

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSMW 1500Lm3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345293  
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 1500Lm3500K  
Description: PR4 WIDE LENS WITH, MATTE WHITE FINISH  
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1343.3 lumens  
Efficiency: N/A  
Efficacy: 101.0 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

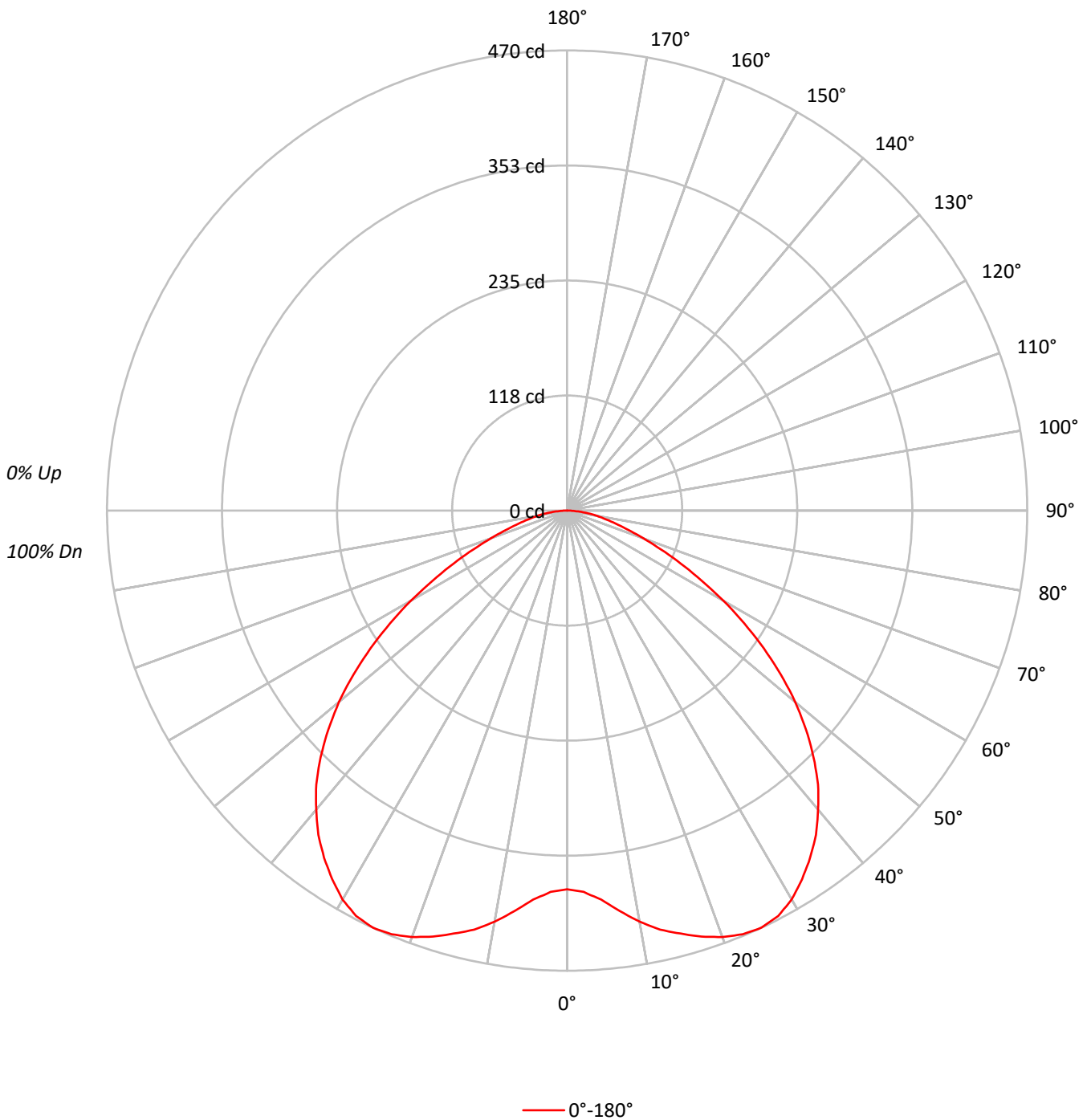
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	33824
5°	35016
10°	37863
15°	40505
20°	43144
25°	45361
30°	46329
35°	46215
40°	45536
45°	44025
50°	41395
55°	37377
60°	32259
65°	26451
70°	21099
75°	17236
80°	15464
85°	12946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.0	2.9
10°-20°	127.2	9.5
20°-30°	215.9	16.1
30°-40°	270.3	20.1
40°-50°	273.5	20.4
50°-60°	218.5	16.3
60°-70°	128.2	9.5
70°-80°	55.8	4.2
80°-90°	14.9	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°	382.1	28.4
0°-40°	652.3	48.6
0°-60°	1144.3	85.2
0°-90°	1343.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1343.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	387	
5°	399	39
15°	447	127
25°	470	216
35°	433	270
45°	356	273
55°	245	219
65°	128	128
75°	51	56
85°	13	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	386.7
2.5°	389.9
5°	398.8
7.5°	412.6
10°	426.3
12.5°	438.4
15°	447.3
17.5°	456.2
20°	463.5
22.5°	468.4
25°	470.0
27.5°	466.8
30°	458.7
32.5°	446.5
35°	432.8
37.5°	417.4
40°	398.8
42.5°	379.4
45°	355.9
47.5°	330.9
50°	304.2
52.5°	275.0
55°	245.1
57.5°	214.4
60°	184.4
62.5°	154.5
65°	127.8
67.5°	103.5
70°	82.5
72.5°	64.7
75°	51.0
77.5°	39.6
80°	30.7
82.5°	21.8
85°	12.9
87.5°	4.9
90°	0.0

(END OF REPORT)