

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: P345347

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSMMS 3000Lm3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PR4FS24D010 PR4M24WD8FSMMS 3000Lm3500K  
Description: PR4 WIDE LENS WITH, MATTE METALLIC SILVER FINISH  
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2604.3 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Spacing Criteria (0/90/45): 1.65 / 1.65 / 1.6  
Luminous Opening: Circular (Dia: 0.4' x H: 0')  
CIE Type: Direct

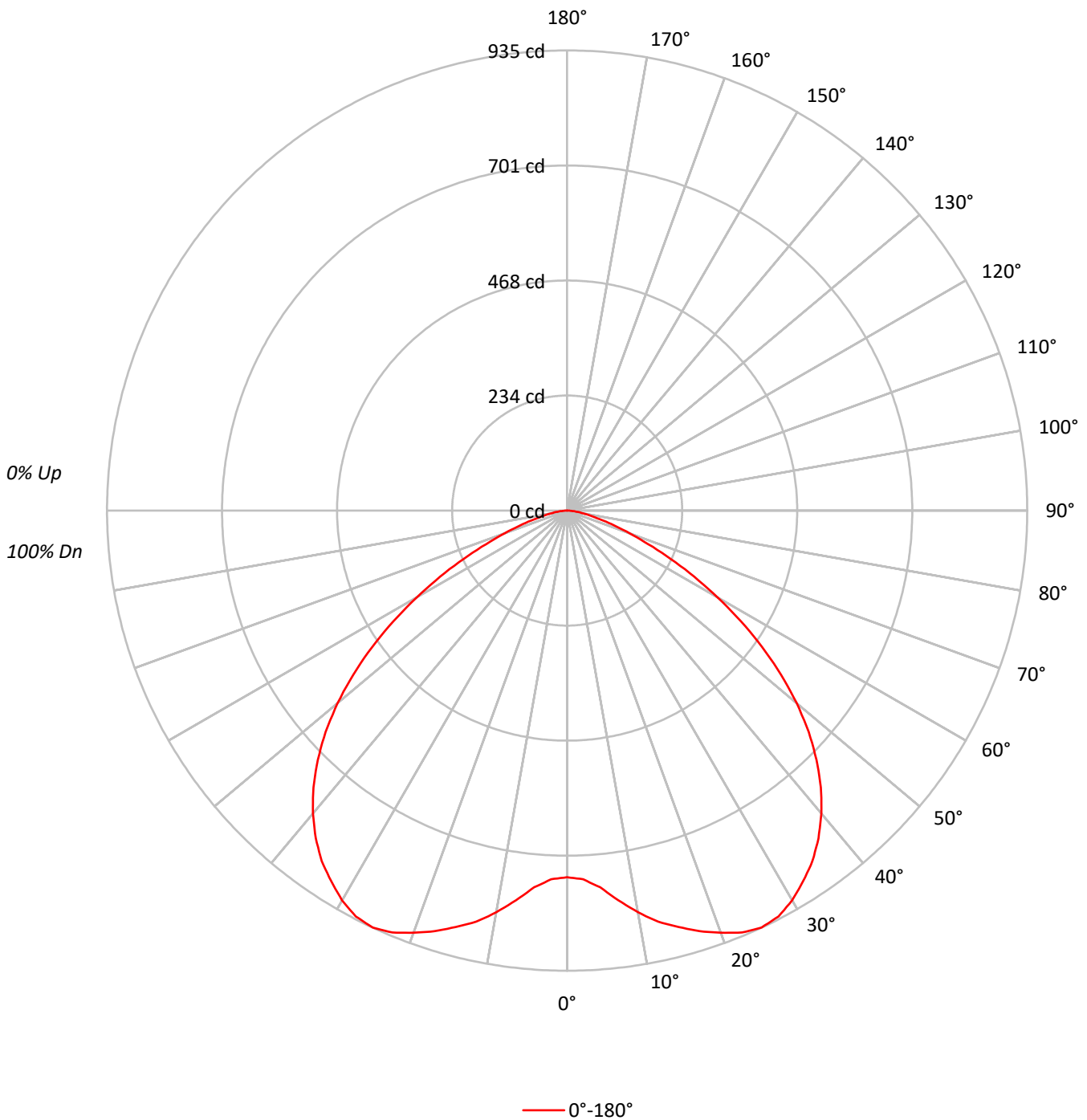
Input Watts (W): 26.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°
0°	65147
5°	67459
10°	73613
15°	79317
20°	84976
25°	90210
30°	92376
35°	92814
40°	91758
45°	88594
50°	82817
55°	73840
60°	61771
65°	48017
70°	34398
75°	23860
80°	16925
85°	11842



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.4	2.9
10°-20°	249.1	9.6
20°-30°	428.9	16.5
30°-40°	542.0	20.8
40°-50°	550.0	21.1
50°-60°	431.1	16.6
60°-70°	233.1	8.9
70°-80°	79.7	3.1
80°-90°	15.1	0.6
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°	753.4	28.9
0°-40°	1295.5	49.7
0°-60°	2276.5	87.4
0°-90°	2604.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2604.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	745	
5°	768	75
15°	876	249
25°	935	429
35°	869	542
45°	716	550
55°	484	431
65°	232	233
75°	71	80
85°	12	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	744.8
2.5°	749.8
5°	768.3
7.5°	798.6
10°	828.8
12.5°	855.7
15°	875.9
17.5°	896.1
20°	912.9
22.5°	928.0
25°	934.7
27.5°	929.7
30°	914.6
32.5°	892.7
35°	869.2
37.5°	838.9
40°	803.6
42.5°	763.3
45°	716.2
47.5°	665.8
50°	608.6
52.5°	548.1
55°	484.2
57.5°	418.6
60°	353.1
62.5°	290.8
65°	232.0
67.5°	178.2
70°	134.5
72.5°	99.2
75°	70.6
77.5°	48.8
80°	33.6
82.5°	21.9
85°	11.8
87.5°	5.0
90°	0.0

(END OF REPORT)