

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: P345340

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSMMS 2000Lm3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345340  
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 2000Lm3000K  
Description: PR4 WIDE LENS WITH, MATTE METALLIC SILVER FINISH  
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1868.3 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

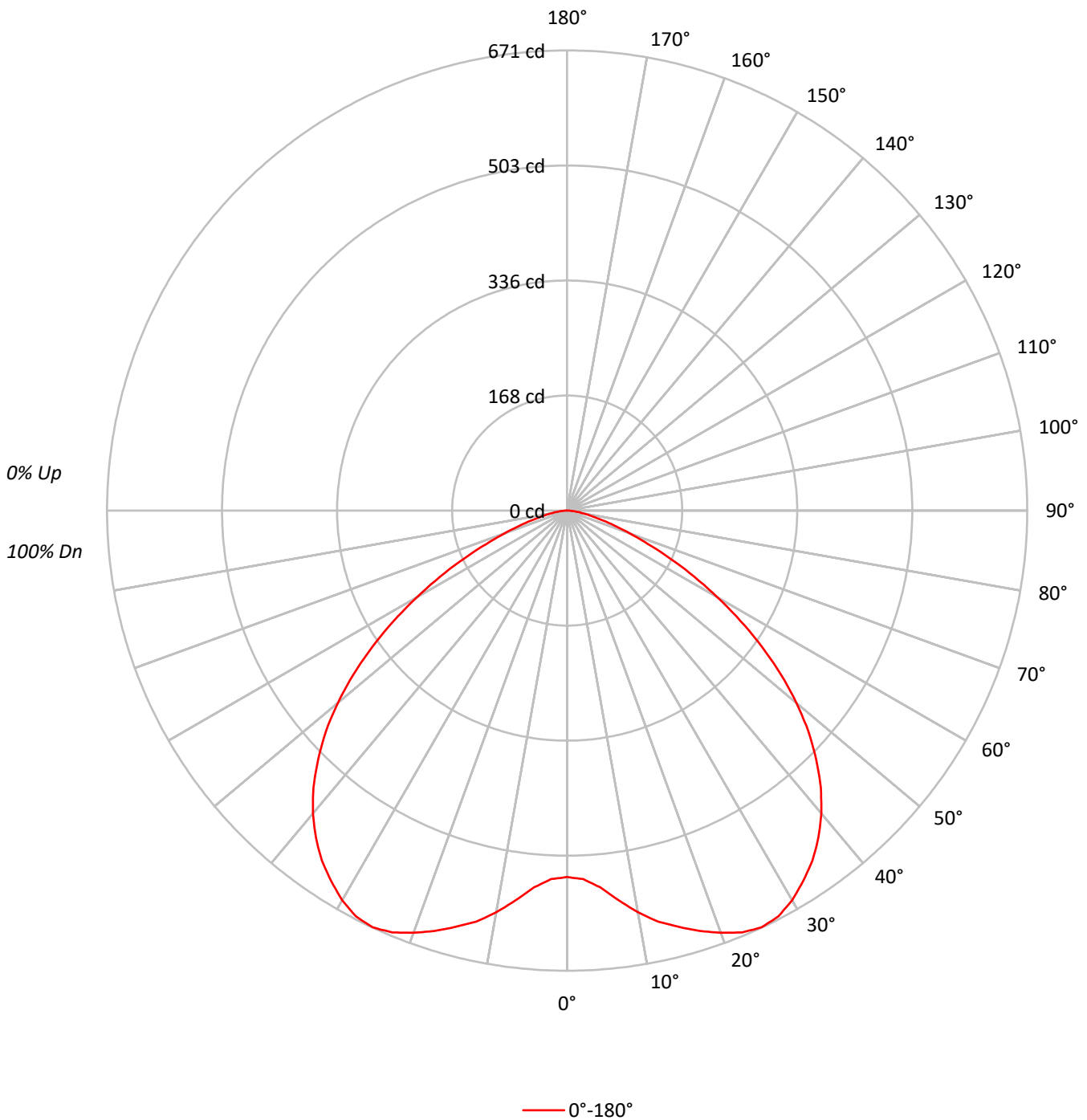
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	46735
5°	48397
10°	52812
15°	56905
20°	60960
25°	64721
30°	66267
35°	66578
40°	65827
45°	63557
50°	59412
55°	52963
60°	44312
65°	34440
70°	24679
75°	17134
80°	12140
85°	8430



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.1	2.9
10°-20°	178.7	9.6
20°-30°	307.7	16.5
30°-40°	388.8	20.8
40°-50°	394.6	21.1
50°-60°	309.2	16.6
60°-70°	167.2	8.9
70°-80°	57.2	3.1
80°-90°	10.8	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°	540.5	28.9
0°-40°	929.3	49.7
0°-60°	1633.1	87.4
0°-90°	1868.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1868.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	534	
5°	551	54
15°	628	179
25°	671	308
35°	624	389
45°	514	395
55°	347	309
65°	166	167
75°	51	57
85°	8	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	534.3
2.5°	537.9
5°	551.2
7.5°	572.9
10°	594.6
12.5°	613.9
15°	628.4
17.5°	642.8
20°	654.9
22.5°	665.8
25°	670.6
27.5°	667.0
30°	656.1
32.5°	640.4
35°	623.5
37.5°	601.8
40°	576.5
42.5°	547.6
45°	513.8
47.5°	477.6
50°	436.6
52.5°	393.2
55°	347.3
57.5°	300.3
60°	253.3
62.5°	208.7
65°	166.4
67.5°	127.8
70°	96.5
72.5°	71.2
75°	50.7
77.5°	35.0
80°	24.1
82.5°	15.7
85°	8.4
87.5°	3.6
90°	0.0

(END OF REPORT)