

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: P345353

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSMMS 4000Lm3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345353  
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 4000Lm3500K  
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: 3736.6 lumens  
Efficiency: N/A  
Efficacy: 95.8 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

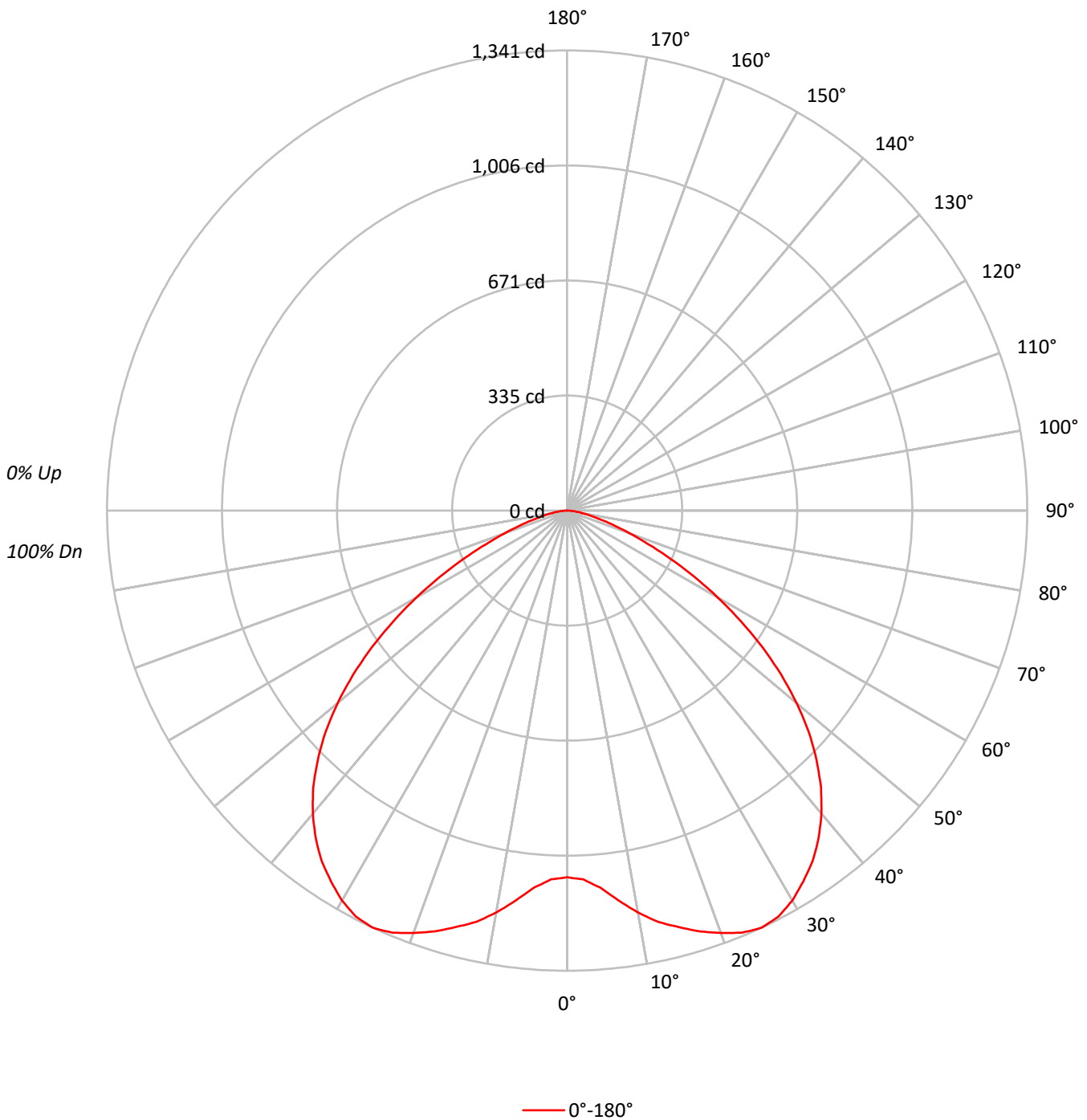
Input Watts (W): 39  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	93470
5°	96795
10°	105623
15°	113801
20°	121920
25°	129442
30°	132534
35°	133166
40°	131653
45°	127115
50°	118824
55°	105941
60°	88624
65°	68900
70°	49359
75°	34235
80°	24279
85°	16961



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.2	2.9
10°-20°	357.4	9.6
20°-30°	615.4	16.5
30°-40°	777.7	20.8
40°-50°	789.1	21.1
50°-60°	618.5	16.6
60°-70°	334.4	8.9
70°-80°	114.3	3.1
80°-90°	21.6	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°	1081.0	28.9
0°-40°	1858.7	49.7
0°-60°	3266.3	87.4
0°-90°	3736.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3736.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1069	
5°	1102	108
15°	1257	357
25°	1341	615
35°	1247	778
45°	1028	789
55°	695	618
65°	333	334
75°	101	114
85°	17	22
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1068.6
2.5°	1075.8
5°	1102.4
7.5°	1145.8
10°	1189.2
12.5°	1227.8
15°	1256.7
17.5°	1285.7
20°	1309.8
22.5°	1331.5
25°	1341.2
27.5°	1333.9
30°	1312.2
32.5°	1280.9
35°	1247.1
37.5°	1203.7
40°	1153.0
42.5°	1095.1
45°	1027.6
47.5°	955.2
50°	873.2
52.5°	786.4
55°	694.7
57.5°	600.6
60°	506.6
62.5°	417.3
65°	332.9
67.5°	255.7
70°	193.0
72.5°	142.3
75°	101.3
77.5°	70.0
80°	48.2
82.5°	31.4
85°	16.9
87.5°	7.2
90°	0.0

(END OF REPORT)