

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: P345352

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSMMS 4000Lm3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345352  
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 4000Lm3000K  
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: 3364.4 lumens  
Efficiency: N/A  
Efficacy: 74.8 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

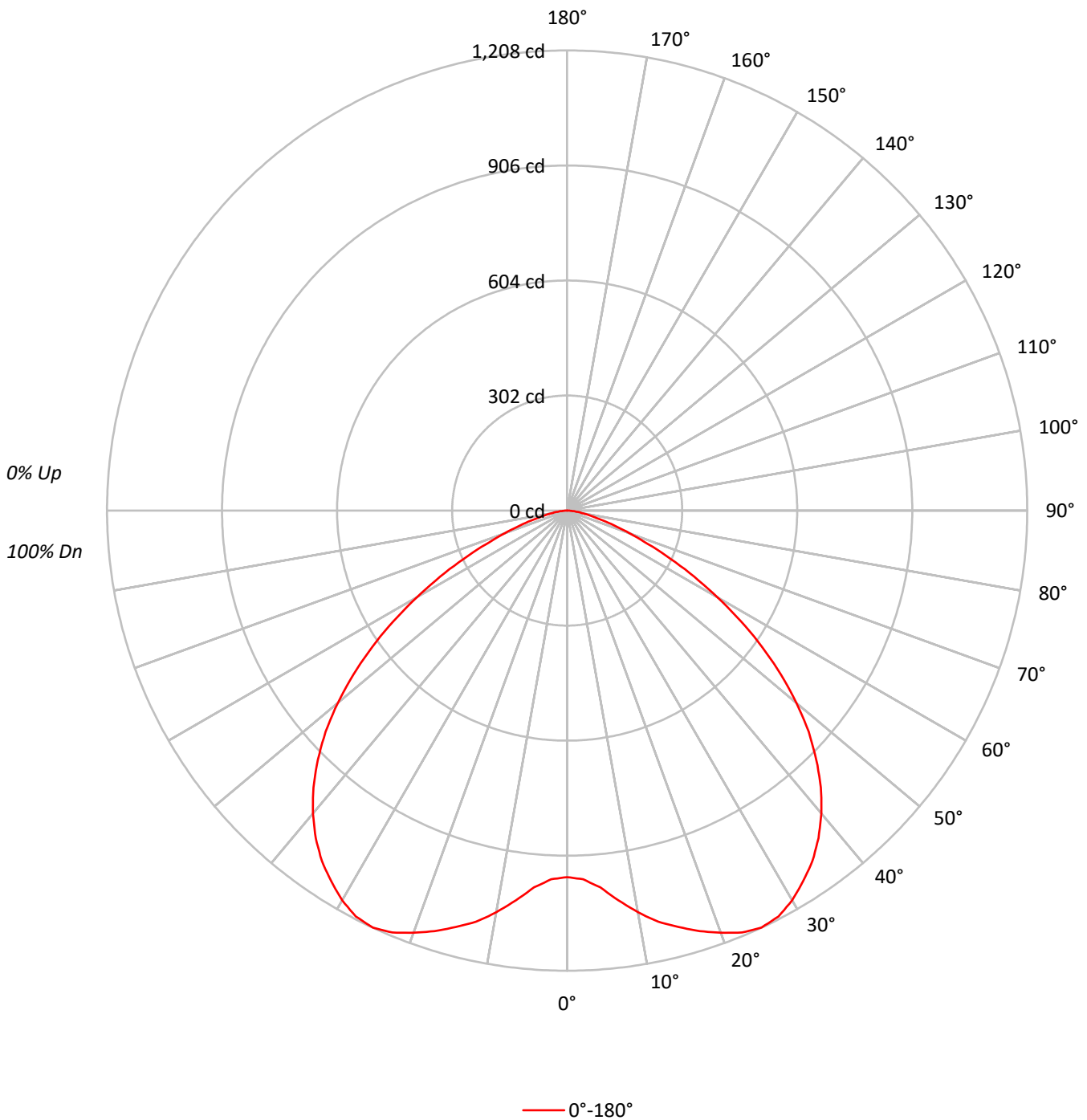
Input Watts (W): 45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P345352

CATALOG NUMBER: PR4FS24D010 PR4M24WD8FSMMS 4000Lm3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P345352

CATALOG NUMBER: PR4FS24D010 PR4M24WD8FSMMS 4000Lm3000K

**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°	84163
5°	87154
10°	95107
15°	102472
20°	109782
25°	116548
30°	119333
35°	119904
40°	118545
45°	114448
50°	106985
55°	95388
60°	79790
65°	62029
70°	44448
75°	30822
80°	21861
85°	15255



TEST NUMBER: P345352

CATALOG NUMBER: PR4FS24D010 PR4M24WD8FSMMS 4000Lm3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.4	2.9
10°-20°	321.8	9.6
20°-30°	554.1	16.5
30°-40°	700.3	20.8
40°-50°	710.5	21.1
50°-60°	556.9	16.6
60°-70°	301.1	8.9
70°-80°	102.9	3.1
80°-90°	19.5	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
<hr/>		
0°-30°	973.3	28.9
0°-40°	1673.6	49.7
0°-60°	2941.0	87.4
0°-90°	3364.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3364.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	962	
5°	993	97
15°	1132	322
25°	1208	554
35°	1123	700
45°	925	711
55°	626	557
65°	300	301
75°	91	103
85°	15	19
90°	0	



TEST NUMBER: P345352

CATALOG NUMBER: PR4FS24D010 PR4M24WD8FSMMS 4000Lm3000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	962.2
2.5°	968.7
5°	992.6
7.5°	1031.7
10°	1070.8
12.5°	1105.5
15°	1131.6
17.5°	1157.6
20°	1179.4
22.5°	1198.9
25°	1207.6
27.5°	1201.1
30°	1181.5
32.5°	1153.3
35°	1122.9
37.5°	1083.8
40°	1038.2
42.5°	986.1
45°	925.2
47.5°	860.1
50°	786.2
52.5°	708.0
55°	625.5
57.5°	540.8
60°	456.1
62.5°	375.7
65°	299.7
67.5°	230.2
70°	173.8
72.5°	128.1
75°	91.2
77.5°	63.0
80°	43.4
82.5°	28.2
85°	15.2
87.5°	6.5
90°	0.0

(END OF REPORT)