

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: P345324

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSMMS 1000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345324
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: PR4FS12D010 PR4M12WD8FSMMS 1000Lm4000K
Description: PR4 WIDE LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 925.5 lumens
Efficiency: N/A
Efficacy: 89.0 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

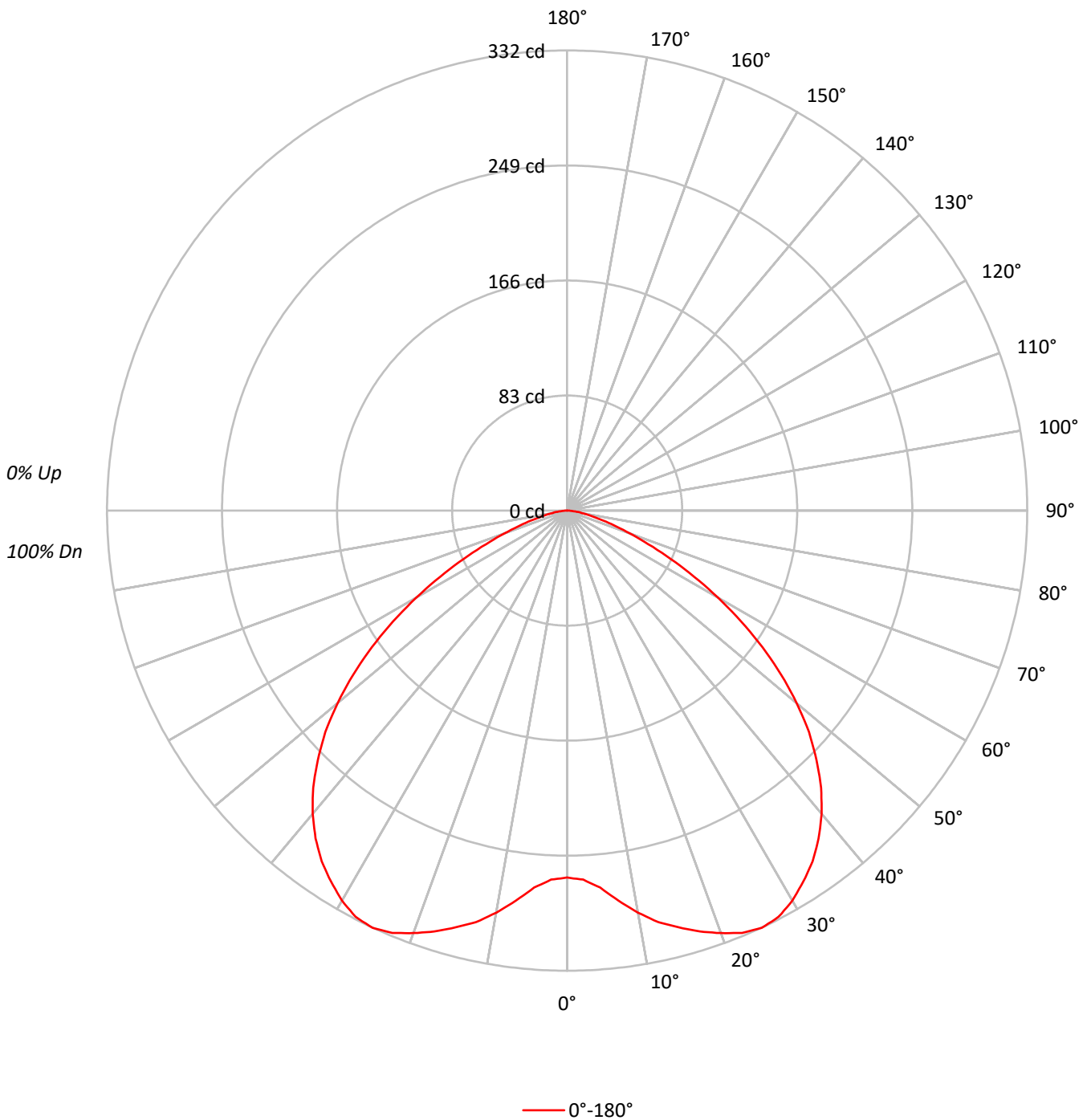
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345324

CATALOG NUMBER: PR4FS12D010 PR4M12WD8FSMMS 1000Lm4000K

Luminous Intensity Polar Plot





TEST NUMBER: P345324

CATALOG NUMBER: PR4FS12D010 PR4M12WD8FSMMS 1000Lm4000K

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°	23153
5°	23970
10°	26157
15°	28190
20°	30196
25°	32061
30°	32825
35°	32984
40°	32611
45°	31482
50°	29434
55°	26245
60°	21955
65°	17054
70°	12225
75°	8483
80°	5994
85°	4215



TEST NUMBER: P345324

CATALOG NUMBER: PR4FS12D010 PR4M12WD8FSMMS 1000Lm4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	2.9
10°-20°	88.5	9.6
20°-30°	152.4	16.5
30°-40°	192.6	20.8
40°-50°	195.4	21.1
50°-60°	153.2	16.6
60°-70°	82.8	8.9
70°-80°	28.3	3.1
80°-90°	5.4	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°	267.7	28.9
0°-40°	460.4	49.7
0°-60°	809.0	87.4
0°-90°	925.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	265	
5°	273	27
15°	311	89
25°	332	152
35°	309	193
45°	254	195
55°	172	153
65°	82	83
75°	25	28
85°	4	5
90°	0	



TEST NUMBER: P345324

CATALOG NUMBER: PR4FS12D010 PR4M12WD8FSMMS 1000Lm4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	264.7
2.5°	266.5
5°	273.0
7.5°	283.8
10°	294.5
12.5°	304.1
15°	311.3
17.5°	318.4
20°	324.4
22.5°	329.8
25°	332.2
27.5°	330.4
30°	325.0
32.5°	317.2
35°	308.9
37.5°	298.1
40°	285.6
42.5°	271.2
45°	254.5
47.5°	236.6
50°	216.3
52.5°	194.8
55°	172.1
57.5°	148.8
60°	125.5
62.5°	103.4
65°	82.4
67.5°	63.3
70°	47.8
72.5°	35.2
75°	25.1
77.5°	17.3
80°	11.9
82.5°	7.8
85°	4.2
87.5°	1.8
90°	0.0

(END OF REPORT)