

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: P345322

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSMMS 1000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345322
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 1000Lm3000K
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: 872.0 lumens
Efficiency: N/A
Efficacy: 83.8 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

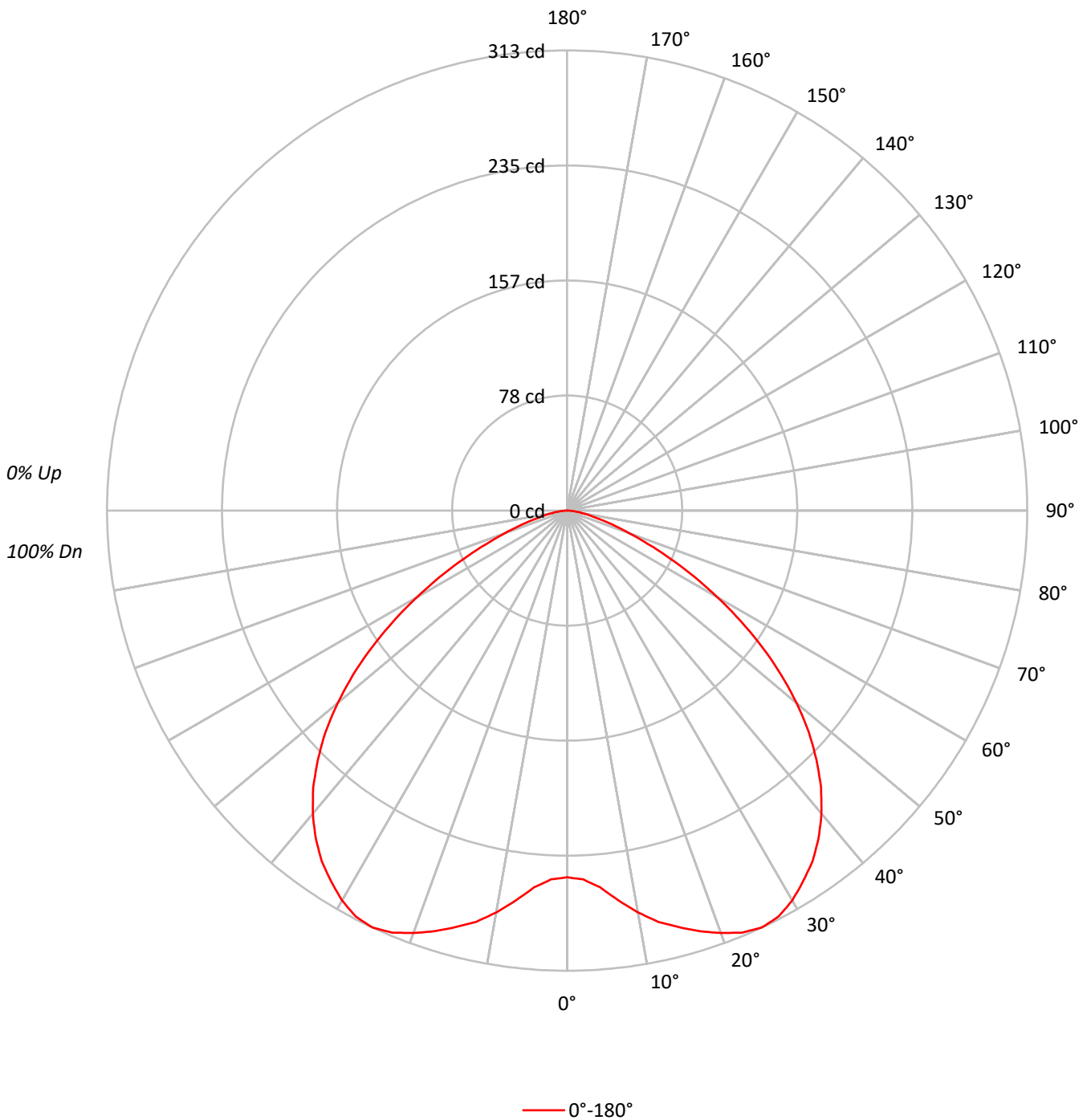
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21815
5°	22583
10°	24647
15°	26560
20°	28455
25°	30208
30°	30927
35°	31073
40°	30727
45°	29663
50°	27733
55°	24720
60°	20678
65°	16082
70°	11508
75°	7976
80°	5692
85°	3914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	2.9
10°-20°	83.4	9.6
20°-30°	143.6	16.5
30°-40°	181.5	20.8
40°-50°	184.2	21.1
50°-60°	144.3	16.6
60°-70°	78.0	9.0
70°-80°	26.6	3.1
80°-90°	5.0	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°	252.3	28.9
0°-40°	433.8	49.7
0°-60°	762.2	87.4
0°-90°	872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	249	
5°	257	25
15°	293	83
25°	313	144
35°	291	181
45°	240	184
55°	162	144
65°	78	78
75°	24	27
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	249.4
2.5°	251.1
5°	257.2
7.5°	267.4
10°	277.5
12.5°	286.5
15°	293.3
17.5°	300.0
20°	305.7
22.5°	310.7
25°	313.0
27.5°	311.3
30°	306.2
32.5°	298.9
35°	291.0
37.5°	280.9
40°	269.1
42.5°	255.6
45°	239.8
47.5°	222.9
50°	203.8
52.5°	183.5
55°	162.1
57.5°	140.2
60°	118.2
62.5°	97.4
65°	77.7
67.5°	59.7
70°	45.0
72.5°	33.2
75°	23.6
77.5°	16.3
80°	11.3
82.5°	7.3
85°	3.9
87.5°	1.7
90°	0.0

(END OF REPORT)