

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: P345323

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSMMS 1000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345323
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 1000Lm3500K
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: 948.1 lumens
Efficiency: N/A
Efficacy: 93.9 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

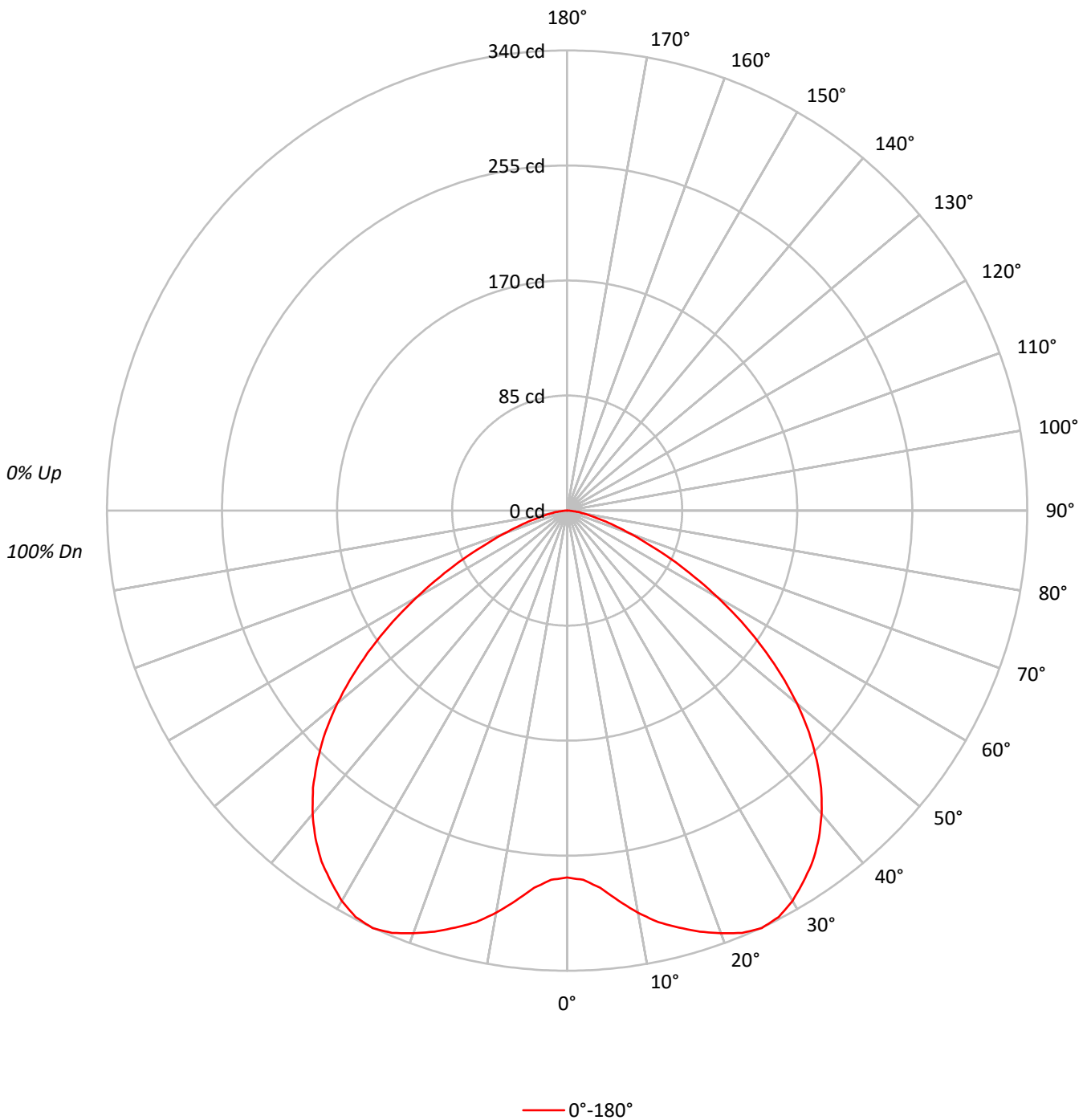
Input Watts (W): 10.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23713
5°	24559
10°	26797
15°	28878
20°	30931
25°	32843
30°	33633
35°	33785
40°	33410
45°	32249
50°	30155
55°	26885
60°	22480
65°	17489
70°	12531
75°	8685
80°	6145
85°	4315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	2.9
10°-20°	90.7	9.6
20°-30°	156.1	16.5
30°-40°	197.3	20.8
40°-50°	200.2	21.1
50°-60°	156.9	16.6
60°-70°	84.9	9.0
70°-80°	29.0	3.1
80°-90°	5.5	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
0°-30°	274.3	28.9
0°-40°	471.6	49.7
0°-60°	828.8	87.4
0°-90°	948.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	271	
5°	280	27
15°	319	91
25°	340	156
35°	316	197
45°	261	200
55°	176	157
65°	84	85
75°	26	29
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	271.1
2.5°	273.0
5°	279.7
7.5°	290.7
10°	301.7
12.5°	311.5
15°	318.9
17.5°	326.2
20°	332.3
22.5°	337.8
25°	340.3
27.5°	338.5
30°	333.0
32.5°	325.0
35°	316.4
37.5°	305.4
40°	292.6
42.5°	277.9
45°	260.7
47.5°	242.4
50°	221.6
52.5°	199.5
55°	176.3
57.5°	152.4
60°	128.5
62.5°	105.9
65°	84.5
67.5°	64.9
70°	49.0
72.5°	36.1
75°	25.7
77.5°	17.7
80°	12.2
82.5°	8.0
85°	4.3
87.5°	1.8
90°	0.0

(END OF REPORT)