

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: P345189

Luminaire Tested: **PR4FS12D010 PR4M12MD9FSMW 1500Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12MD9FSMW 1500Lm4000K
Description: PR4 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1075.3 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.02
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

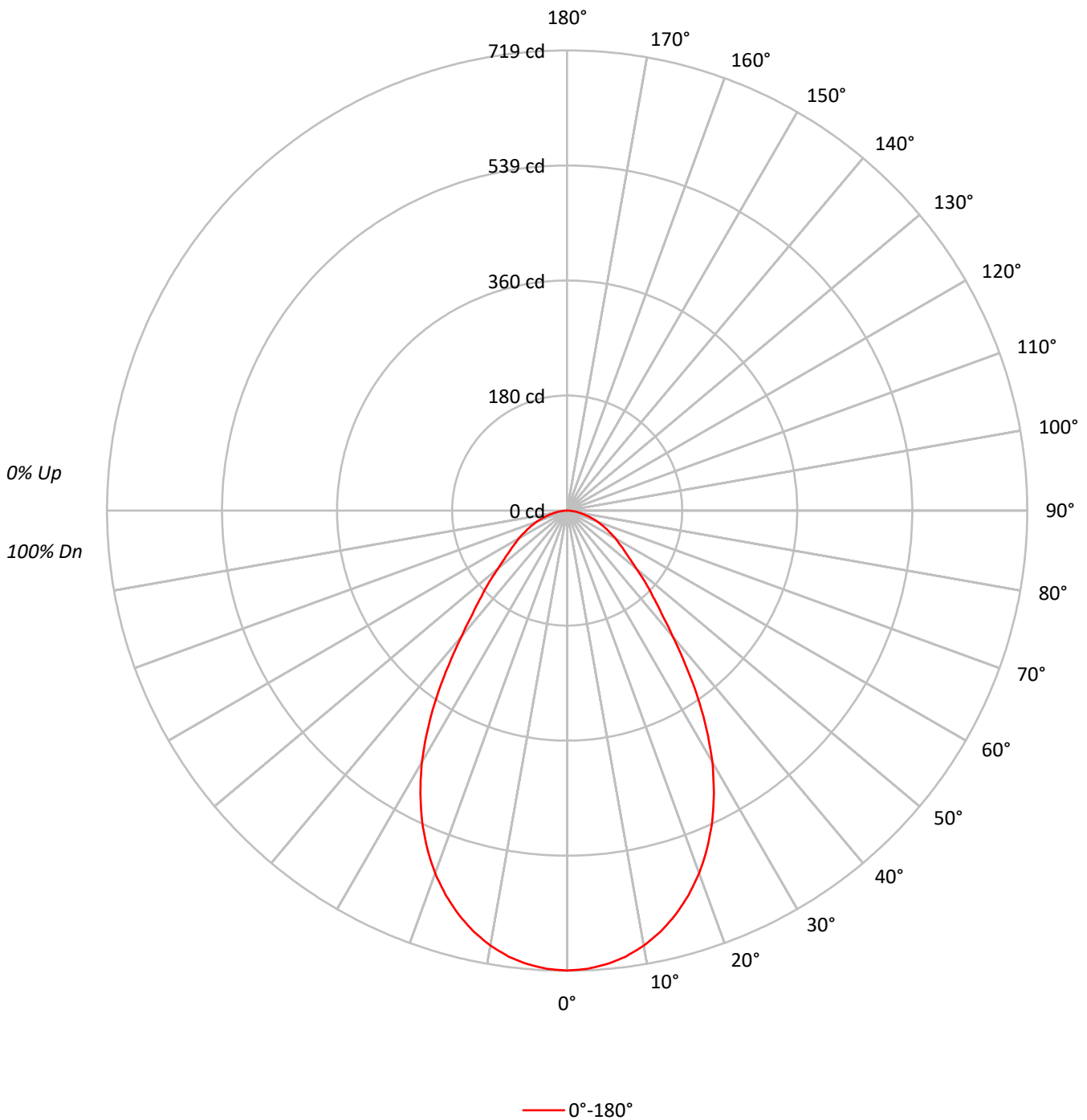
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	73	65	59	81	72	64	59	70	63	59	68	62	58	66	61	57	56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46
8	69	57	50	45	67	56	49	44	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	51	45	41	50	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62864
5°	62463
10°	61312
15°	59214
20°	56138
25°	51769
30°	45834
35°	37950
40°	29265
45°	23367
50°	19146
55°	16622
60°	15255
65°	13950
70°	12838
75°	11153
80°	9974
85°	7928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	6.3
10°-20°	183.3	17.0
20°-30°	244.8	22.8
30°-40°	220.6	20.5
40°-50°	148.1	13.8
50°-60°	98.9	9.2
60°-70°	67.0	6.2
70°-80°	35.7	3.3
80°-90°	9.7	0.9
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°	495.4	46.1
0°-40°	715.9	66.6
0°-60°	962.9	89.5
0°-90°	1075.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1075.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	719	
5°	711	67
15°	654	183
25°	536	245
35°	355	221
45°	189	148
55°	109	99
65°	67	67
75°	33	36
85°	8	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	718.7
2.5°	716.7
5°	711.4
7.5°	702.8
10°	690.3
12.5°	673.8
15°	653.9
17.5°	630.2
20°	603.1
22.5°	571.4
25°	536.4
27.5°	496.7
30°	453.8
32.5°	405.6
35°	355.4
37.5°	303.9
40°	256.3
42.5°	218.6
45°	188.9
47.5°	165.1
50°	140.7
52.5°	122.9
55°	109.0
57.5°	97.1
60°	87.2
62.5°	76.6
65°	67.4
67.5°	58.1
70°	50.2
72.5°	41.6
75°	33.0
77.5°	25.8
80°	19.8
82.5°	13.9
85°	7.9
87.5°	4.0
90°	0.0

(END OF REPORT)