

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: P345188

Luminaire Tested: **PR4FS12D010 PR4M12MD9FSMW 1500Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345188
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 1500Lm3500K
Description: PR4 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1105.0 lumens
Efficiency: N/A
Efficacy: 83.1 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

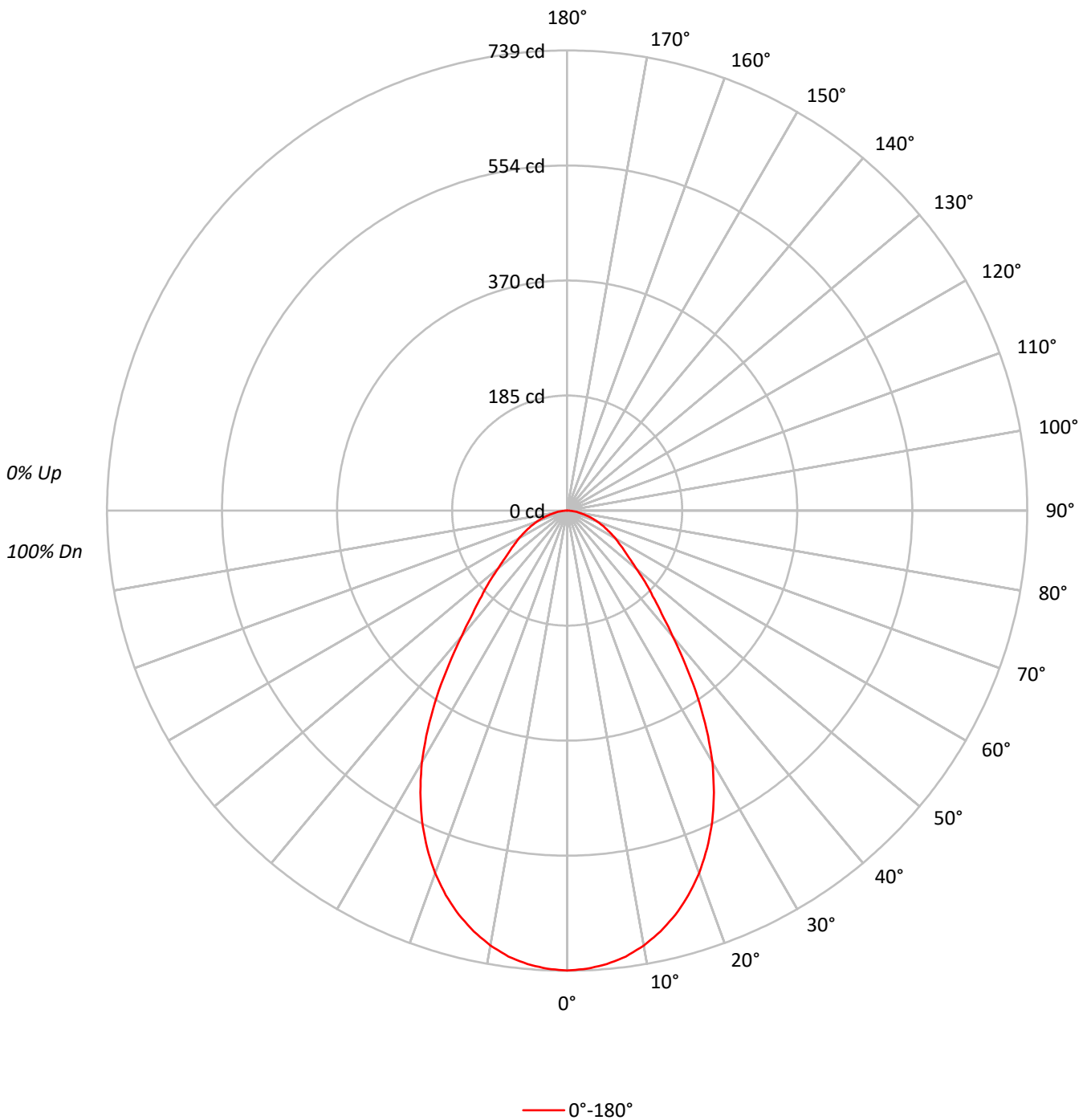
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	64605
5°	64193
10°	63008
15°	60853
20°	57693
25°	53197
30°	47107
35°	38996
40°	30076
45°	24010
50°	19677
55°	17080
60°	15675
65°	14322
70°	13196
75°	11457
80°	10276
85°	8129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	6.3
10°-20°	188.4	17.0
20°-30°	251.6	22.8
30°-40°	226.7	20.5
40°-50°	152.2	13.8
50°-60°	101.6	9.2
60°-70°	68.8	6.2
70°-80°	36.7	3.3
80°-90°	10.0	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°	509.1	46.1
0°-40°	735.7	66.6
0°-60°	989.6	89.6
0°-90°	1105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1105.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	739	
5°	731	69
15°	672	188
25°	551	252
35°	365	227
45°	194	152
55°	112	102
65°	69	69
75°	34	37
85°	8	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	738.6
2.5°	736.5
5°	731.1
7.5°	722.3
10°	709.4
12.5°	692.4
15°	672.0
17.5°	647.6
20°	619.8
22.5°	587.2
25°	551.2
27.5°	510.5
30°	466.4
32.5°	416.8
35°	365.2
37.5°	312.3
40°	263.4
42.5°	224.7
45°	194.1
47.5°	169.7
50°	144.6
52.5°	126.3
55°	112.0
57.5°	99.8
60°	89.6
62.5°	78.7
65°	69.2
67.5°	59.7
70°	51.6
72.5°	42.8
75°	33.9
77.5°	26.5
80°	20.4
82.5°	14.3
85°	8.1
87.5°	4.1
90°	0.0

(END OF REPORT)