

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: P345225

Luminaire Tested: **PR4FS12D010 PR4M12MD9FSMMS 1500Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12MD9FSMMS 1500Lm4000K
Description: PR4 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1008.5 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.02
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

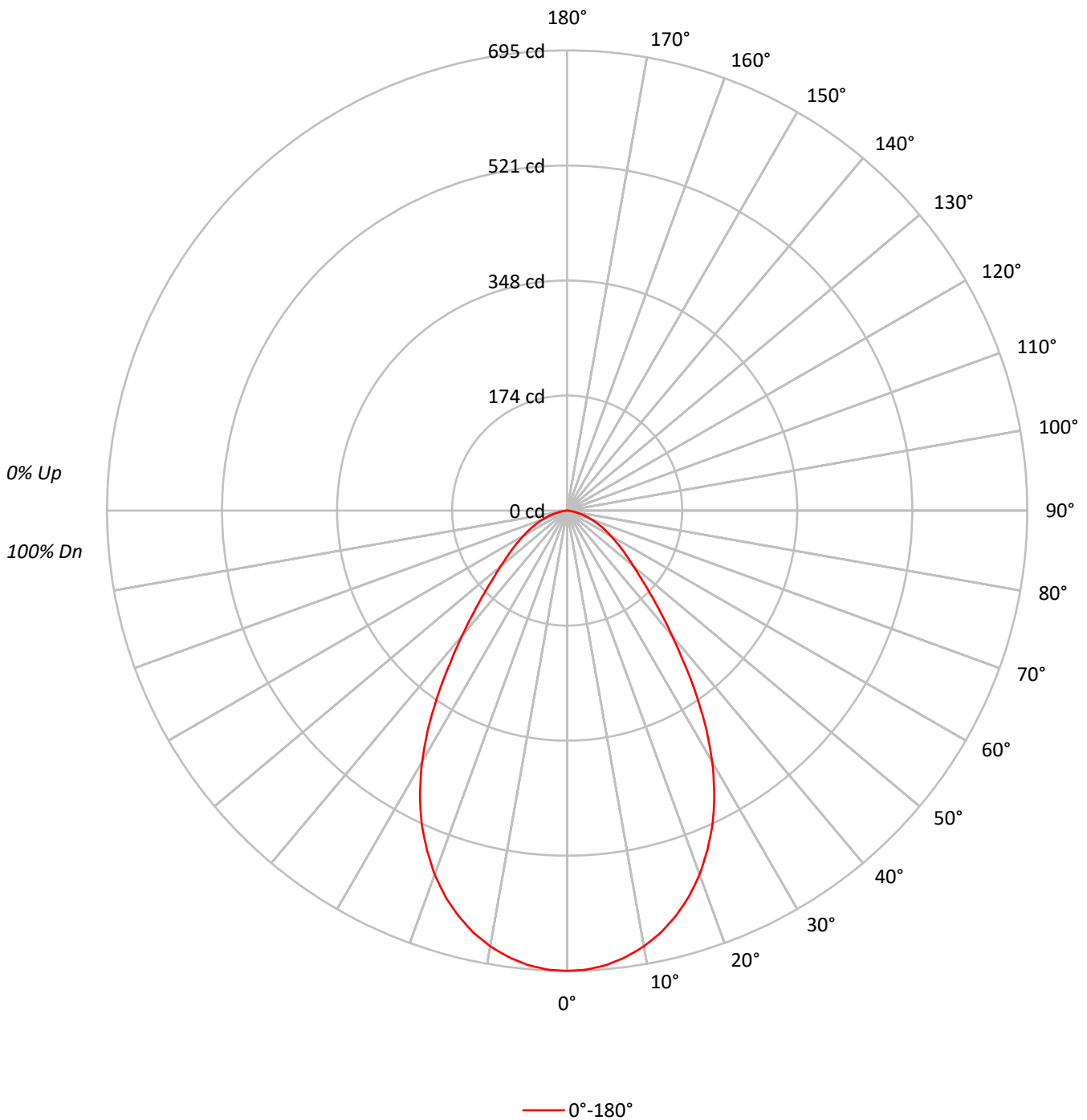
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60809
5°	60462
10°	59340
15°	57394
20°	54444
25°	50205
30°	44279
35°	36380
40°	28123
45°	21969
50°	17785
55°	15311
60°	13278
65°	11756
70°	10127
75°	8043
80°	5642
85°	3312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	6.5
10°-20°	177.7	17.6
20°-30°	237.2	23.5
30°-40°	211.8	21.0
40°-50°	139.5	13.8
50°-60°	90.4	9.0
60°-70°	56.4	5.6
70°-80°	25.8	2.6
80°-90°	4.8	0.5
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°	480.0	47.6
0°-40°	691.8	68.6
0°-60°	921.6	91.4
0°-90°	1008.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1008.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	695	
5°	689	65
15°	634	178
25°	520	237
35°	341	212
45°	178	139
55°	100	90
65°	57	56
75°	24	26
85°	3	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	695.2
2.5°	693.9
5°	688.6
7.5°	680.0
10°	668.1
12.5°	653.0
15°	633.8
17.5°	611.4
20°	584.9
22.5°	553.9
25°	520.2
27.5°	481.3
30°	438.4
32.5°	390.8
35°	340.7
37.5°	289.8
40°	246.3
42.5°	209.3
45°	177.6
47.5°	151.2
50°	130.7
52.5°	114.2
55°	100.4
57.5°	87.1
60°	75.9
62.5°	66.0
65°	56.8
67.5°	47.5
70°	39.6
72.5°	31.7
75°	23.8
77.5°	17.2
80°	11.2
82.5°	6.6
85°	3.3
87.5°	2.0
90°	0.0

(END OF REPORT)