

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: P345219

Luminaire Tested: **PR4FS12D010 PR4M12MD9FSMMS 1000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345219
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 1000Lm4000K
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: 762.9 lumens
Efficiency: N/A
Efficacy: 73.4 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

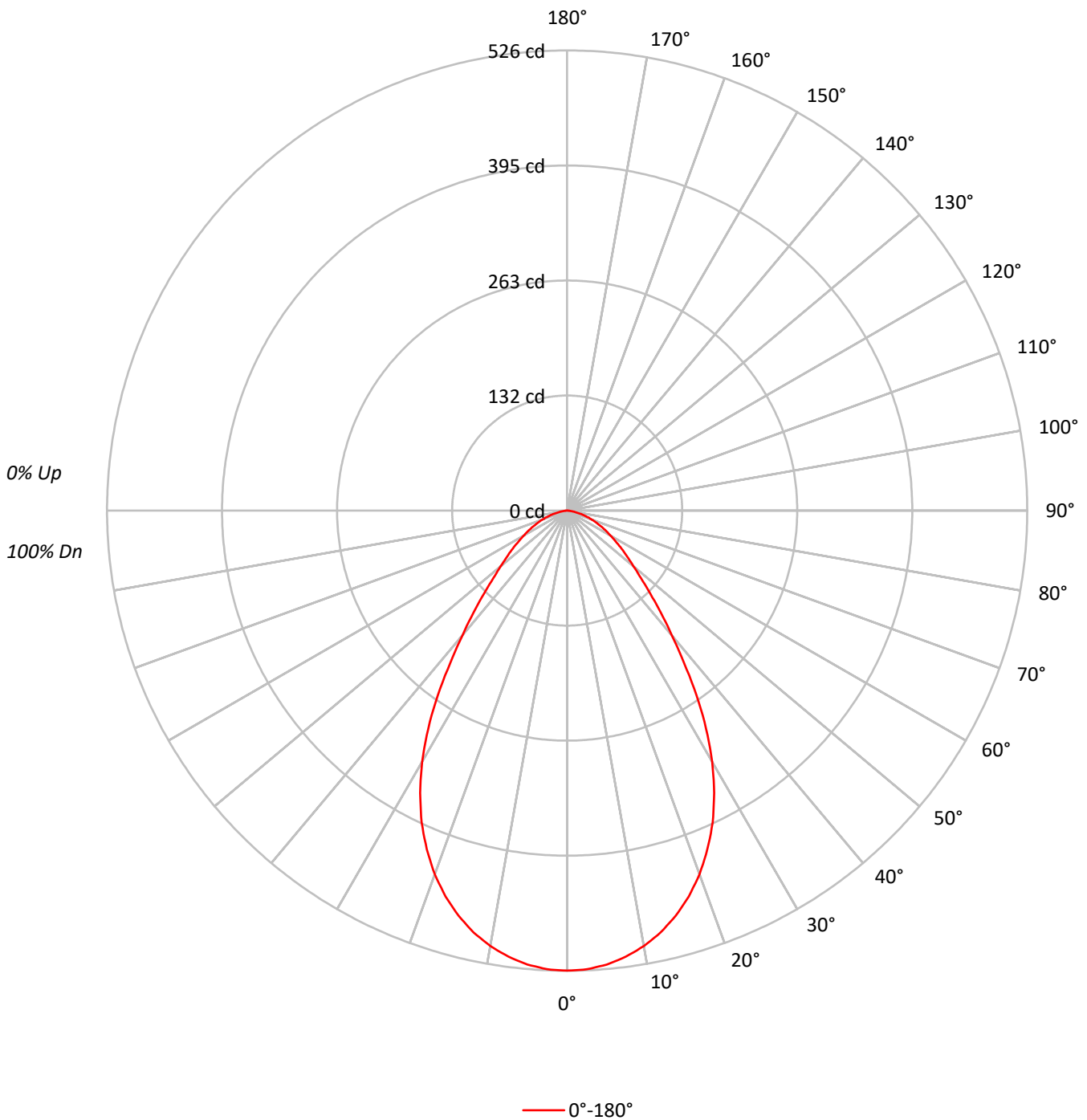
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	45991
5°	45728
10°	44889
15°	43412
20°	41180
25°	37977
30°	33492
35°	27517
40°	21272
45°	16613
50°	13458
55°	11575
60°	10041
65°	8879
70°	7672
75°	6083
80°	4282
85°	2509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	6.5
10°-20°	134.4	17.6
20°-30°	179.4	23.5
30°-40°	160.2	21.0
40°-50°	105.5	13.8
50°-60°	68.4	9.0
60°-70°	42.6	5.6
70°-80°	19.6	2.6
80°-90°	3.6	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°	363.1	47.6
0°-40°	523.2	68.6
0°-60°	697.1	91.4
0°-90°	762.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	762.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	526	
5°	521	49
15°	479	134
25°	394	179
35°	258	160
45°	134	105
55°	76	68
65°	43	43
75°	18	20
85°	2	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	525.8
2.5°	524.8
5°	520.8
7.5°	514.3
10°	505.4
12.5°	493.9
15°	479.4
17.5°	462.4
20°	442.4
22.5°	419.0
25°	393.5
27.5°	364.0
30°	331.6
32.5°	295.6
35°	257.7
37.5°	219.2
40°	186.3
42.5°	158.3
45°	134.3
47.5°	114.4
50°	98.9
52.5°	86.4
55°	75.9
57.5°	65.9
60°	57.4
62.5°	49.9
65°	42.9
67.5°	36.0
70°	30.0
72.5°	24.0
75°	18.0
77.5°	13.0
80°	8.5
82.5°	5.0
85°	2.5
87.5°	1.5
90°	0.0

(END OF REPORT)