

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: P345339

Luminaire Tested: **PR4FS12D010 PR4M12WD9FSMMS 2000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345339
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 PR4M12WD9FSMMS 2000Lm4000K
Description: PR4 WIDE 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: 1658.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

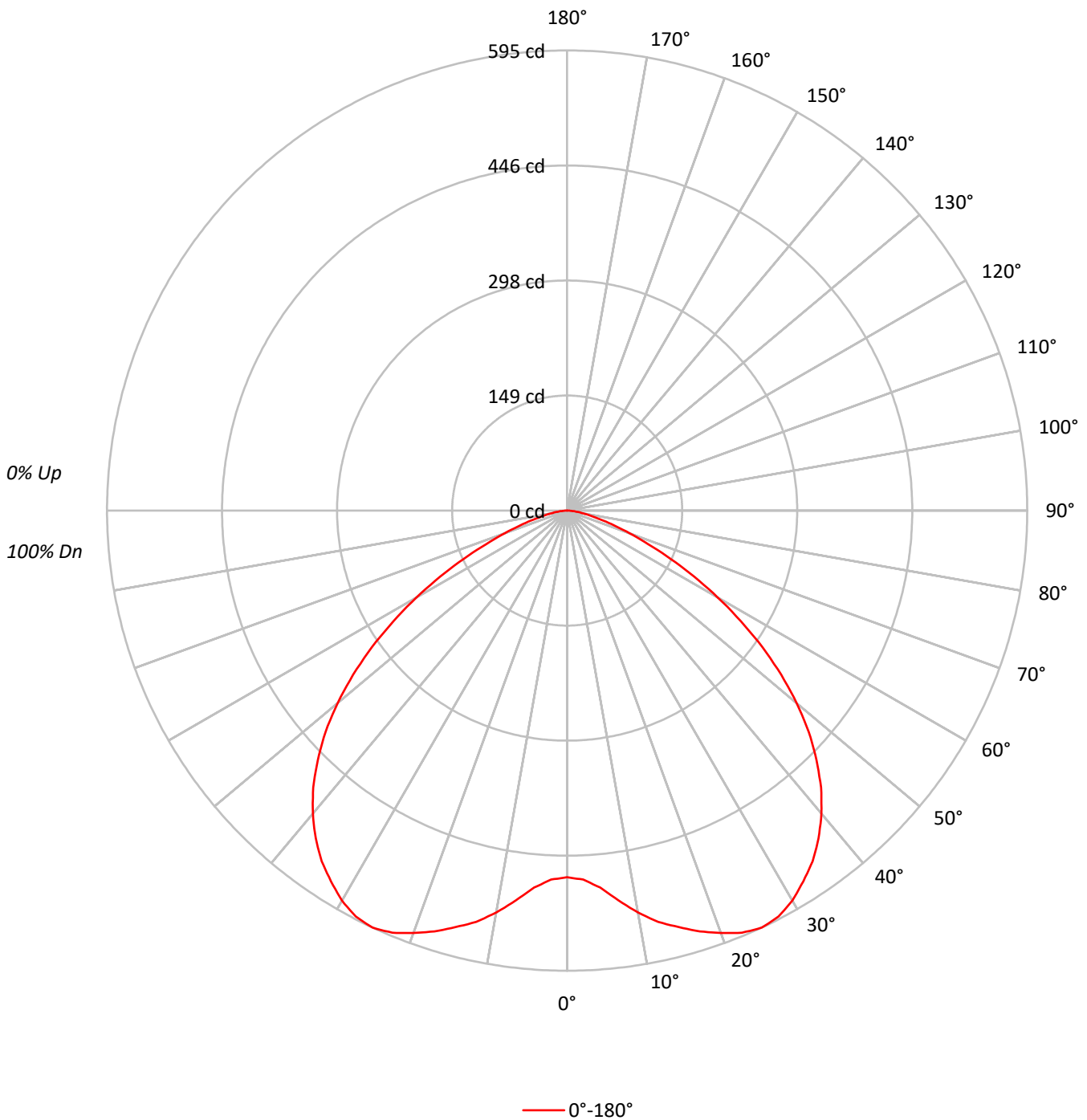
Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	41478
5°	42945
10°	46870
15°	50493
20°	54100
25°	57434
30°	58813
35°	59092
40°	58416
45°	56407
50°	52730
55°	47015
60°	39326
65°	30570
70°	21892
75°	15208
80°	10780
85°	7527



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	2.9
10°-20°	158.6	9.6
20°-30°	273.1	16.5
30°-40°	345.1	20.8
40°-50°	350.2	21.1
50°-60°	274.4	16.6
60°-70°	148.4	9.0
70°-80°	50.7	3.1
80°-90°	9.6	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°	479.7	28.9
0°-40°	824.8	49.7
0°-60°	1449.4	87.4
0°-90°	1658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1658.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	474	
5°	489	48
15°	558	159
25°	595	273
35°	553	345
45°	456	350
55°	308	274
65°	148	148
75°	45	51
85°	8	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	474.2
2.5°	477.4
5°	489.1
7.5°	508.4
10°	527.7
12.5°	544.8
15°	557.6
17.5°	570.5
20°	581.2
22.5°	590.8
25°	595.1
27.5°	591.9
30°	582.3
32.5°	568.3
35°	553.4
37.5°	534.1
40°	511.6
42.5°	485.9
45°	456.0
47.5°	423.9
50°	387.5
52.5°	348.9
55°	308.3
57.5°	266.5
60°	224.8
62.5°	185.2
65°	147.7
67.5°	113.5
70°	85.6
72.5°	63.1
75°	45.0
77.5°	31.0
80°	21.4
82.5°	13.9
85°	7.5
87.5°	3.2
90°	0.0

(END OF REPORT)