

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: P345253

Luminaire Tested: **PR4FS12D010 PR4M12MD9FSBZ 1000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12MD9FSBZ 1000Lm3000K
Description: PR4 MEDIUM LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 651.3 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 1/1/2001
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

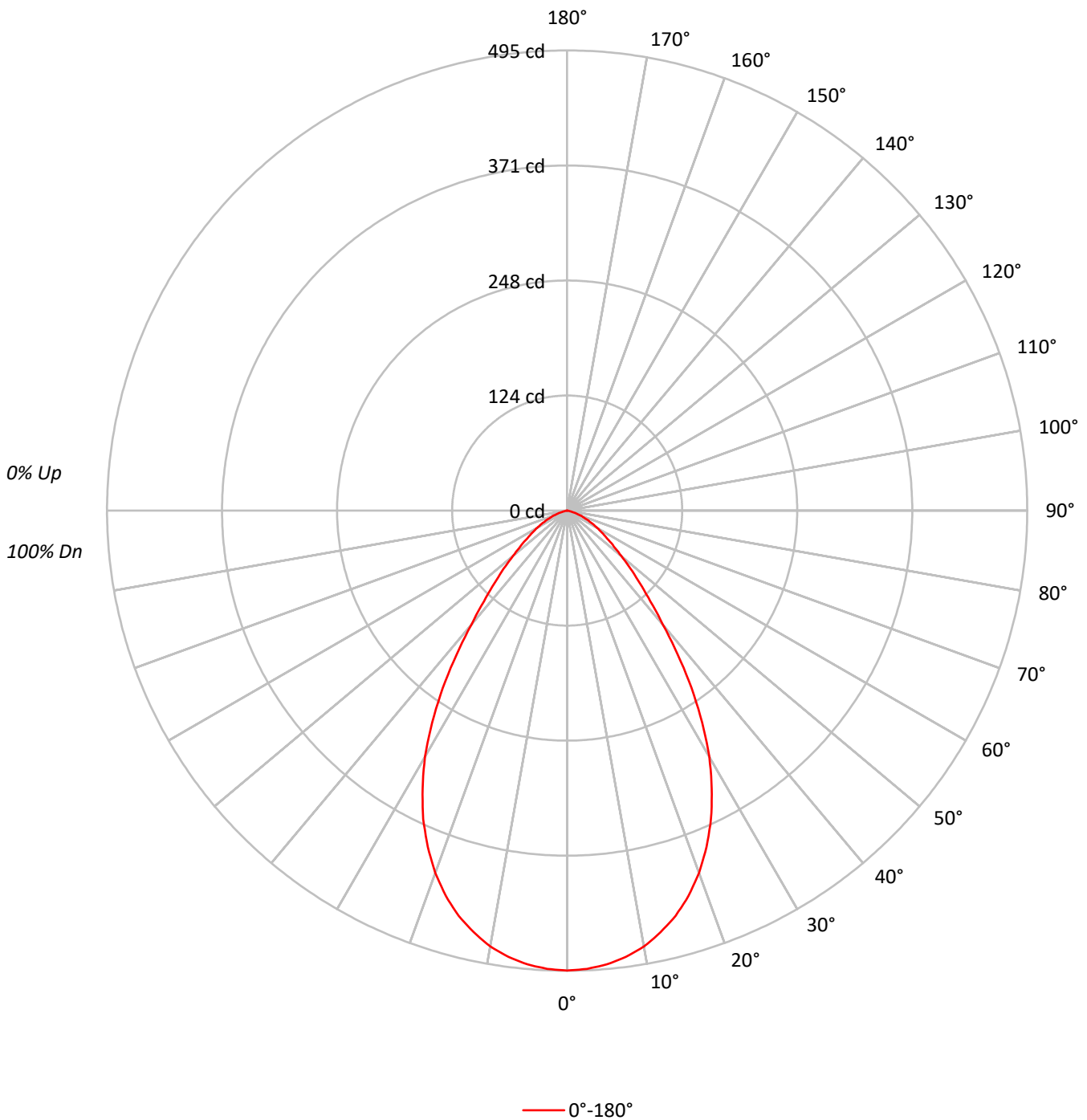
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	52	61	56	52	51
8	72	61	54	49	70	60	53	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43280
5°	43024
10°	42287
15°	40858
20°	38602
25°	35343
30°	30876
35°	24912
40°	18304
45°	13657
50°	10315
55°	8052
60°	6543
65°	5071
70°	3683
75°	1791
80°	504
85°	502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	7.1
10°-20°	126.4	19.4
20°-30°	166.9	25.6
30°-40°	144.5	22.2
40°-50°	86.9	13.3
50°-60°	48.4	7.4
60°-70°	24.7	3.8
70°-80°	6.4	1.0
80°-90°	0.7	0.1
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°	339.6	52.1
0°-40°	484.1	74.3
0°-60°	619.5	95.1
0°-90°	651.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	651.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	495	
5°	490	46
15°	451	126
25°	366	167
35°	233	145
45°	110	87
55°	53	48
65°	24	25
75°	5	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	494.8
2.5°	493.4
5°	490.0
7.5°	484.3
10°	476.1
12.5°	464.6
15°	451.2
17.5°	434.4
20°	414.7
22.5°	391.6
25°	366.2
27.5°	336.9
30°	305.7
32.5°	270.2
35°	233.3
37.5°	195.3
40°	160.3
42.5°	132.5
45°	110.4
47.5°	92.6
50°	75.8
52.5°	63.4
55°	52.8
57.5°	44.6
60°	37.4
62.5°	30.7
65°	24.5
67.5°	19.2
70°	14.4
72.5°	9.6
75°	5.3
77.5°	1.9
80°	1.0
82.5°	1.0
85°	0.5
87.5°	0.5
90°	0.0

(END OF REPORT)