

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: P345255

Luminaire Tested: **PR4FS12D010 PR4M12MD9FSBZ 1000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345255
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 1000Lm4000K
Description: PR4 MEDIUM LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 677.9 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 1/1/2001
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

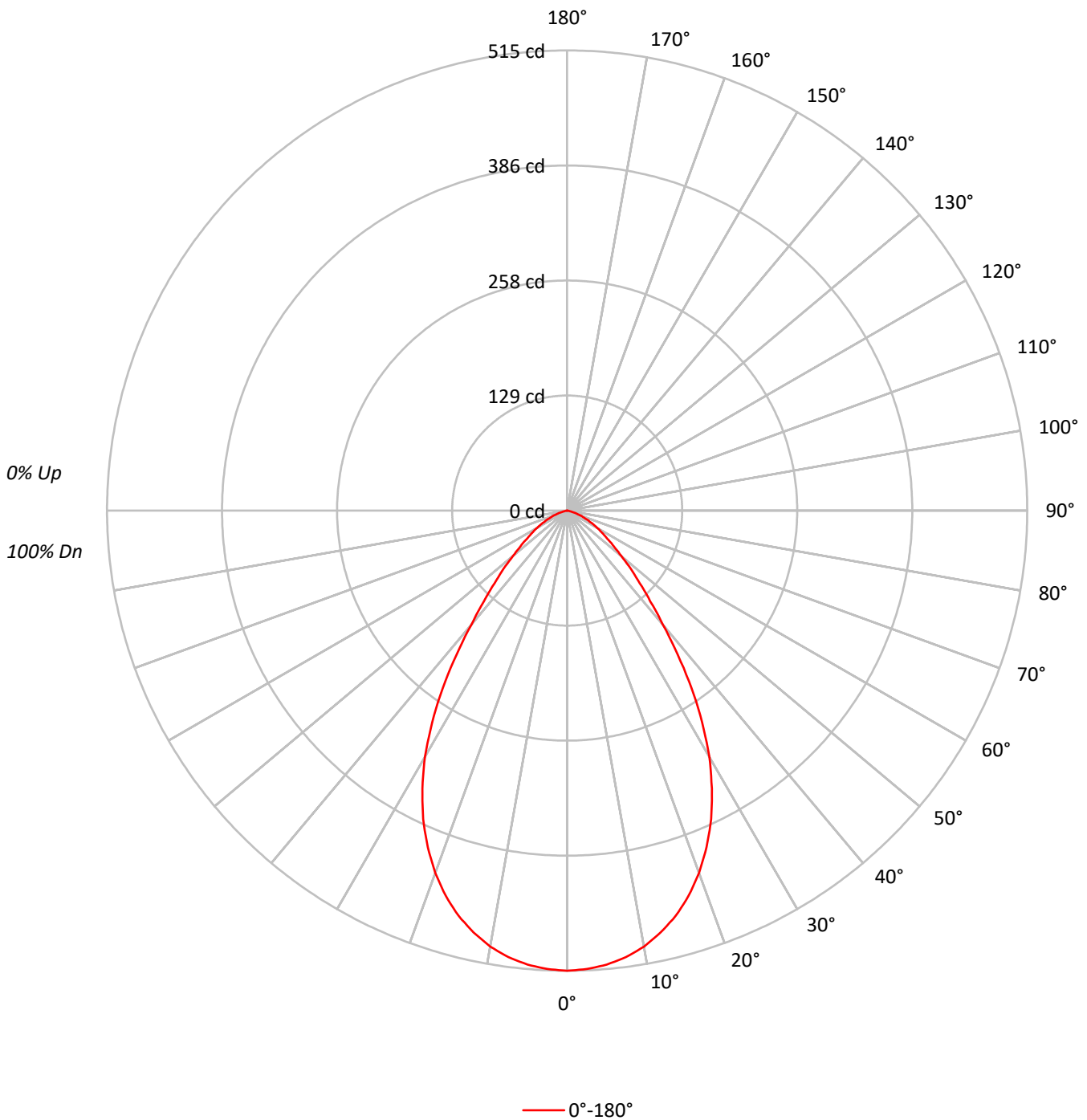
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	45047
5°	44780
10°	44010
15°	42525
20°	40175
25°	36790
30°	32139
35°	25926
40°	19046
45°	14213
50°	10737
55°	8387
60°	6823
65°	5278
70°	3836
75°	1859
80°	504
85°	502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	7.1
10°-20°	131.5	19.4
20°-30°	173.7	25.6
30°-40°	150.4	22.2
40°-50°	90.5	13.3
50°-60°	50.4	7.4
60°-70°	25.8	3.8
70°-80°	6.7	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°	353.4	52.1
0°-40°	503.9	74.3
0°-60°	644.8	95.1
0°-90°	677.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	677.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	515	
5°	510	48
15°	470	132
25°	381	174
35°	243	150
45°	115	90
55°	55	50
65°	26	26
75°	6	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	515.0
2.5°	513.5
5°	510.0
7.5°	504.0
10°	495.5
12.5°	483.6
15°	469.6
17.5°	452.1
20°	431.6
22.5°	407.6
25°	381.2
27.5°	350.7
30°	318.2
32.5°	281.2
35°	242.8
37.5°	203.3
40°	166.8
42.5°	137.9
45°	114.9
47.5°	96.4
50°	78.9
52.5°	65.9
55°	55.0
57.5°	46.5
60°	39.0
62.5°	32.0
65°	25.5
67.5°	20.0
70°	15.0
72.5°	10.0
75°	5.5
77.5°	2.0
80°	1.0
82.5°	1.0
85°	0.5
87.5°	0.5
90°	0.0

(END OF REPORT)