

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: P345261

Luminaire Tested: **PR4FS12D010 PR4M12MD9FSBZ 1500Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345261
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 1500Lm4000K
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: 896.3 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 1/1/2001
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

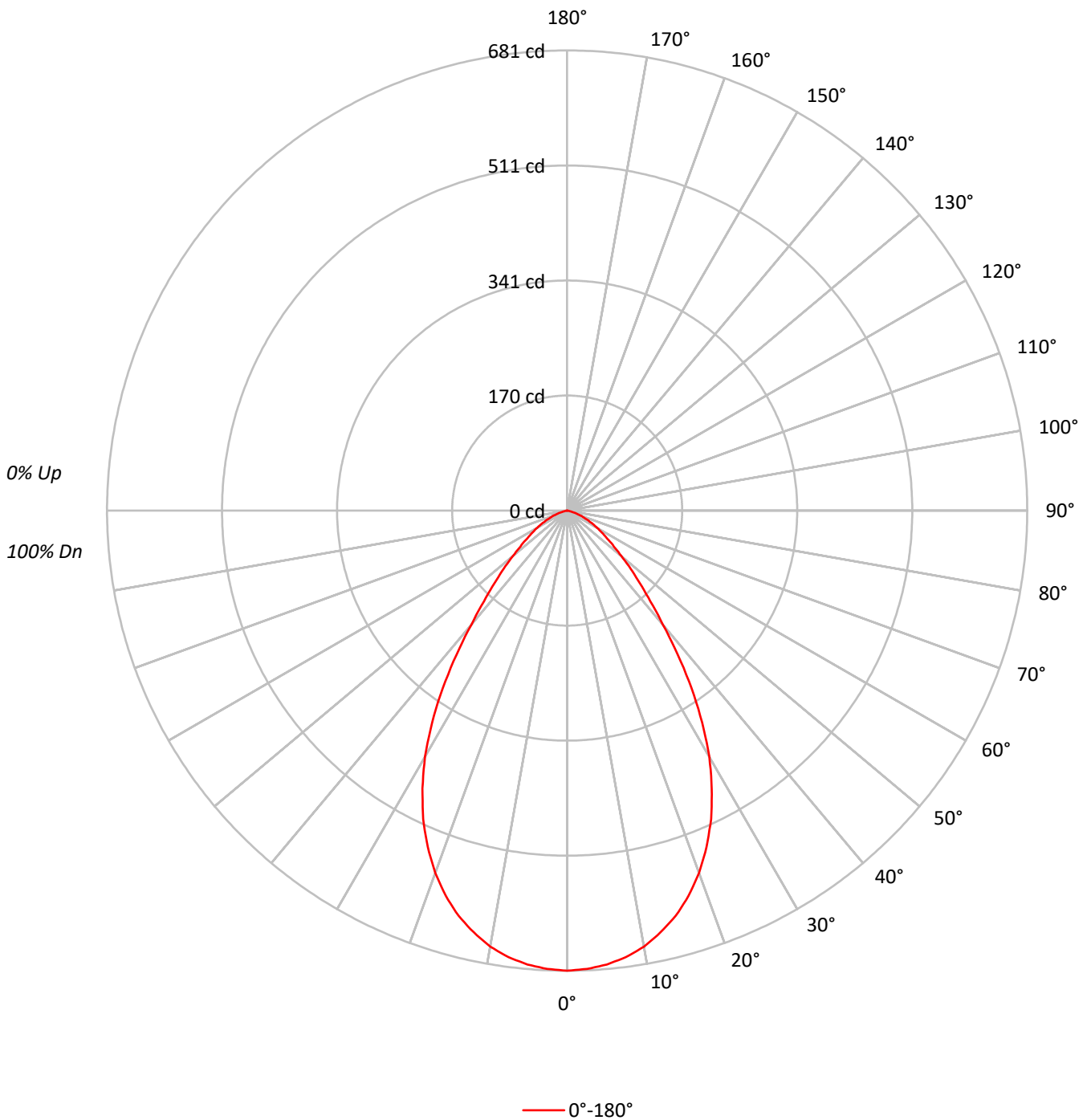
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	59558
5°	59206
10°	58194
15°	56217
20°	53113
25°	48632
30°	42491
35°	34277
40°	25189
45°	18790
50°	14207
55°	11087
60°	9009
65°	6975
70°	5064
75°	2467
80°	655
85°	703



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	7.1
10°-20°	173.9	19.4
20°-30°	229.6	25.6
30°-40°	198.9	22.2
40°-50°	119.7	13.3
50°-60°	66.7	7.4
60°-70°	34.1	3.8
70°-80°	8.8	1.0
80°-90°	0.9	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°	467.3	52.1
0°-40°	666.2	74.3
0°-60°	852.5	95.1
0°-90°	896.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	681	
5°	674	64
15°	621	174
25°	504	230
35°	321	199
45°	152	120
55°	73	67
65°	34	34
75°	7	9
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	680.9
2.5°	678.9
5°	674.3
7.5°	666.4
10°	655.2
12.5°	639.3
15°	620.8
17.5°	597.7
20°	570.6
22.5°	538.9
25°	503.9
27.5°	463.6
30°	420.7
32.5°	371.8
35°	321.0
37.5°	268.8
40°	220.6
42.5°	182.3
45°	151.9
47.5°	127.5
50°	104.4
52.5°	87.2
55°	72.7
57.5°	61.4
60°	51.5
62.5°	42.3
65°	33.7
67.5°	26.4
70°	19.8
72.5°	13.2
75°	7.3
77.5°	2.6
80°	1.3
82.5°	1.3
85°	0.7
87.5°	0.7
90°	0.0

(END OF REPORT)