

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: P345369

Luminaire Tested: **PR4FS12D010 PR4M12WD9FSBZ 1500Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12WD9FSBZ 1500Lm4000K
Description: PR4 WIDE 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: 883.1 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.57
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

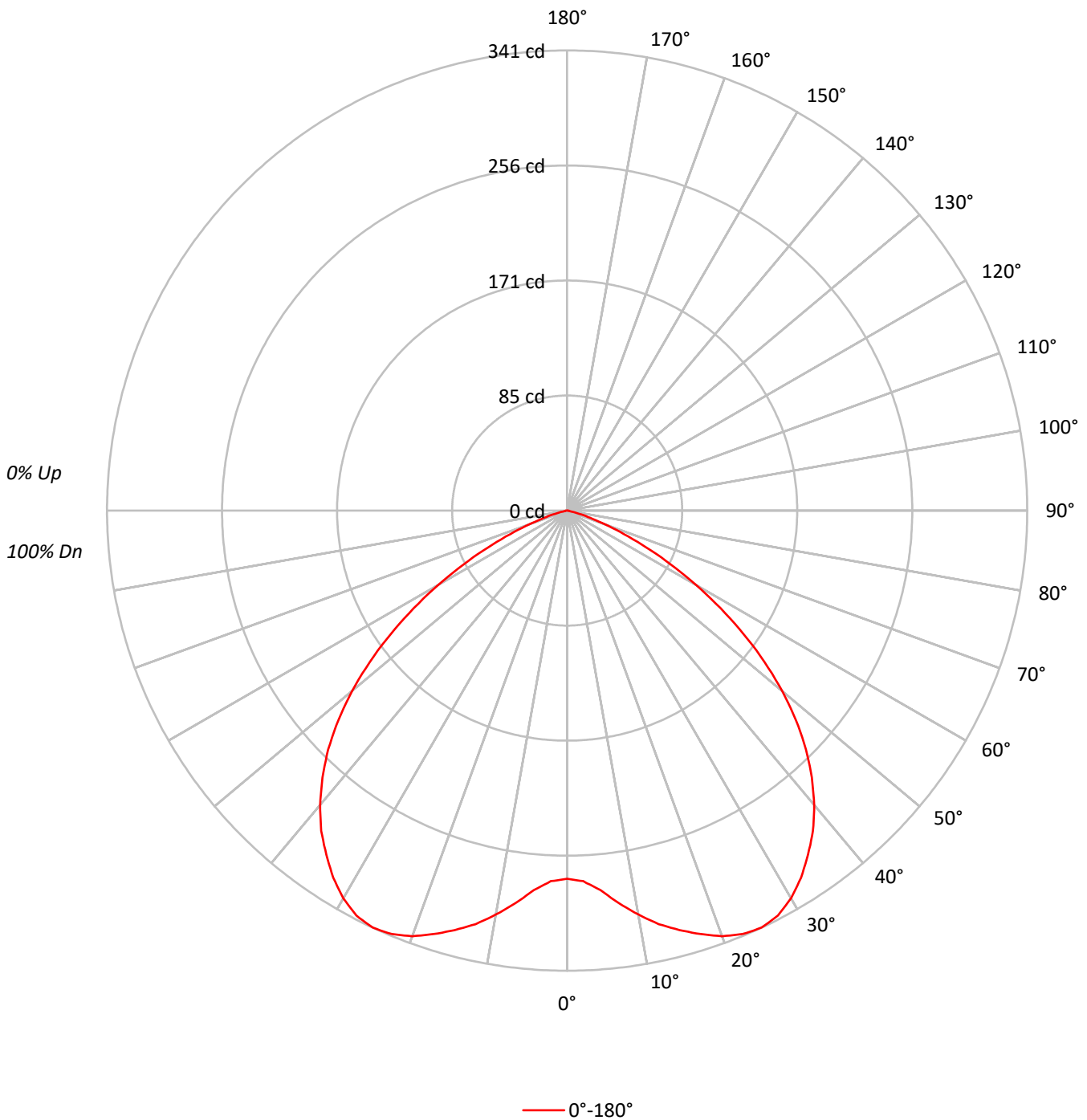
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345369

CATALOG NUMBER: PR4FS12D010 PR4M12WD9FSBZ 1500Lm4000K

Luminous Intensity Polar Plot





TEST NUMBER: P345369

CATALOG NUMBER: PR4FS12D010 PR4M12WD9FSBZ 1500Lm4000K

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	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	63	51	42	37	62	50	42	37	49	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23870
5°	24778
10°	27001
15°	29141
20°	31248
25°	32911
30°	33502
35°	33230
40°	32519
45°	30975
50°	28332
55°	24384
60°	19313
65°	13412
70°	7596
75°	3143
80°	655
85°	1305



TEST NUMBER: P345369

CATALOG NUMBER: PR4FS12D010 PR4M12WD9FSBZ 1500Lm4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.7	3.1
10°-20°	91.5	10.4
20°-30°	156.5	17.7
30°-40°	194.4	22.0
40°-50°	191.9	21.7
50°-60°	142.3	16.1
60°-70°	65.8	7.4
70°-80°	12.0	1.4
80°-90°	1.1	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°	275.6	31.2
0°-40°	470.0	53.2
0°-60°	804.2	91.1
0°-90°	883.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	883.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	273	
5°	282	28
15°	322	91
25°	341	156
35°	311	194
45°	250	192
55°	160	142
65°	65	66
75°	9	12
85°	1	1
90°	0	



TEST NUMBER: P345369

CATALOG NUMBER: PR4FS12D010 PR4M12WD9FSBZ 1500Lm4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	272.9
2.5°	274.9
5°	282.2
7.5°	293.4
10°	304.0
12.5°	313.9
15°	321.8
17.5°	329.1
20°	335.7
22.5°	339.7
25°	341.0
27.5°	338.3
30°	331.7
32.5°	322.5
35°	311.2
37.5°	299.3
40°	284.8
42.5°	268.3
45°	250.4
47.5°	230.0
50°	208.2
52.5°	184.4
55°	159.9
57.5°	134.8
60°	110.4
62.5°	86.6
65°	64.8
67.5°	45.6
70°	29.7
72.5°	17.8
75°	9.3
77.5°	3.3
80°	1.3
82.5°	1.3
85°	1.3
87.5°	0.7
90°	0.0

(END OF REPORT)