

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: P345368

Luminaire Tested: **PR4FS12D010 PR4M12WD9FSBZ 1500Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345368
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 1500Lm3500K
Description: PR4 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 907.6 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.56
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

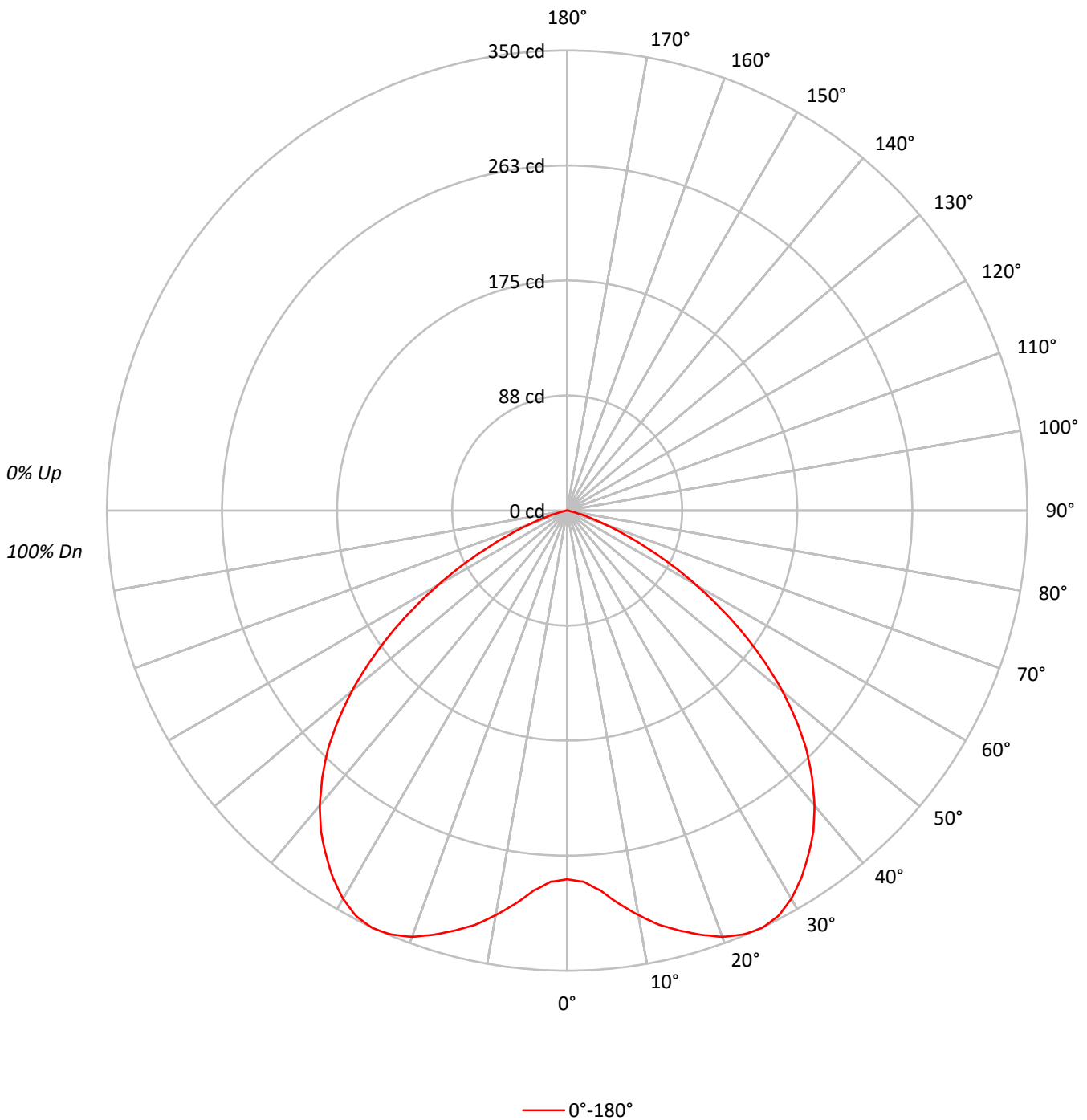
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	24535
5°	25463
10°	27747
15°	29947
20°	32114
25°	33818
30°	34431
35°	34159
40°	33421
45°	31841
50°	29107
55°	25055
60°	19838
65°	13784
70°	7826
75°	3211
80°	705
85°	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	3.1
10°-20°	94.0	10.4
20°-30°	160.8	17.7
30°-40°	199.8	22.0
40°-50°	197.2	21.7
50°-60°	146.3	16.1
60°-70°	67.6	7.4
70°-80°	12.4	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°	283.3	31.2
0°-40°	483.0	53.2
0°-60°	826.5	91.1
0°-90°	907.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	907.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	280	
5°	290	28
15°	331	94
25°	350	161
35°	320	200
45°	257	197
55°	164	146
65°	67	68
75°	10	12
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	280.5
2.5°	282.5
5°	290.0
7.5°	301.5
10°	312.4
12.5°	322.6
15°	330.7
17.5°	338.2
20°	345.0
22.5°	349.1
25°	350.4
27.5°	347.7
30°	340.9
32.5°	331.4
35°	319.9
37.5°	307.6
40°	292.7
42.5°	275.7
45°	257.4
47.5°	236.3
50°	213.9
52.5°	189.5
55°	164.3
57.5°	138.5
60°	113.4
62.5°	89.0
65°	66.6
67.5°	46.9
70°	30.6
72.5°	18.3
75°	9.5
77.5°	3.4
80°	1.4
82.5°	1.4
85°	1.4
87.5°	0.7
90°	0.0

(END OF REPORT)