

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: P345362

Luminaire Tested: **PR4FS12D010 PR4M12WD9FSBZ 1000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345362
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 1000Lm3500K
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: 686.4 lumens
Efficiency: N/A
Efficacy: 68.0 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

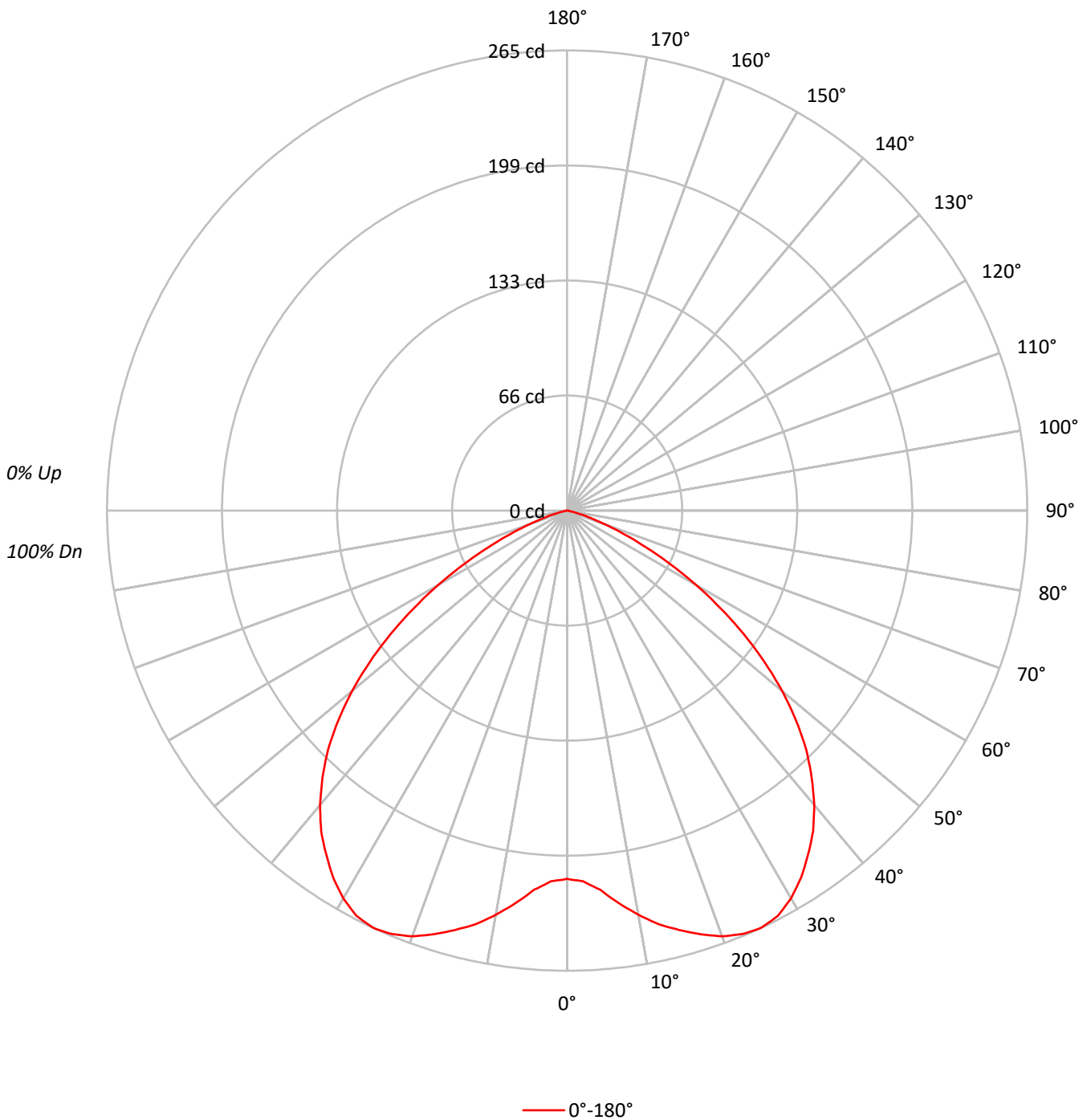
Input Watts (W): 10.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	51	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°	18552
5°	19255
10°	20988
15°	22648
20°	24285
25°	25576
30°	26038
35°	25830
40°	25280
45°	24084
50°	22017
55°	18956
60°	15010
65°	10411
70°	5908
75°	2433
80°	504
85°	1004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	3.1
10°-20°	71.1	10.4
20°-30°	121.6	17.7
30°-40°	151.1	22.0
40°-50°	149.1	21.7
50°-60°	110.6	16.1
60°-70°	51.1	7.4
70°-80°	9.4	1.4
80°-90°	0.8	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°	214.2	31.2
0°-40°	365.3	53.2
0°-60°	625.1	91.1
0°-90°	686.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	212	
5°	219	22
15°	250	71
25°	265	122
35°	242	151
45°	195	149
55°	124	111
65°	50	51
75°	7	9
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	212.1
2.5°	213.7
5°	219.3
7.5°	228.1
10°	236.3
12.5°	244.0
15°	250.1
17.5°	255.8
20°	260.9
22.5°	264.0
25°	265.0
27.5°	263.0
30°	257.8
32.5°	250.7
35°	241.9
37.5°	232.7
40°	221.4
42.5°	208.5
45°	194.7
47.5°	178.7
50°	161.8
52.5°	143.3
55°	124.3
57.5°	104.8
60°	85.8
62.5°	67.3
65°	50.3
67.5°	35.4
70°	23.1
72.5°	13.9
75°	7.2
77.5°	2.6
80°	1.0
82.5°	1.0
85°	1.0
87.5°	0.5
90°	0.0

(END OF REPORT)