

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: P345359

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSBZ 1000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345359
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 PR4M12WD8FSBZ 1000Lm3500K
Description: PR4 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 818.3 lumens
Efficiency: N/A
Efficacy: 81.0 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

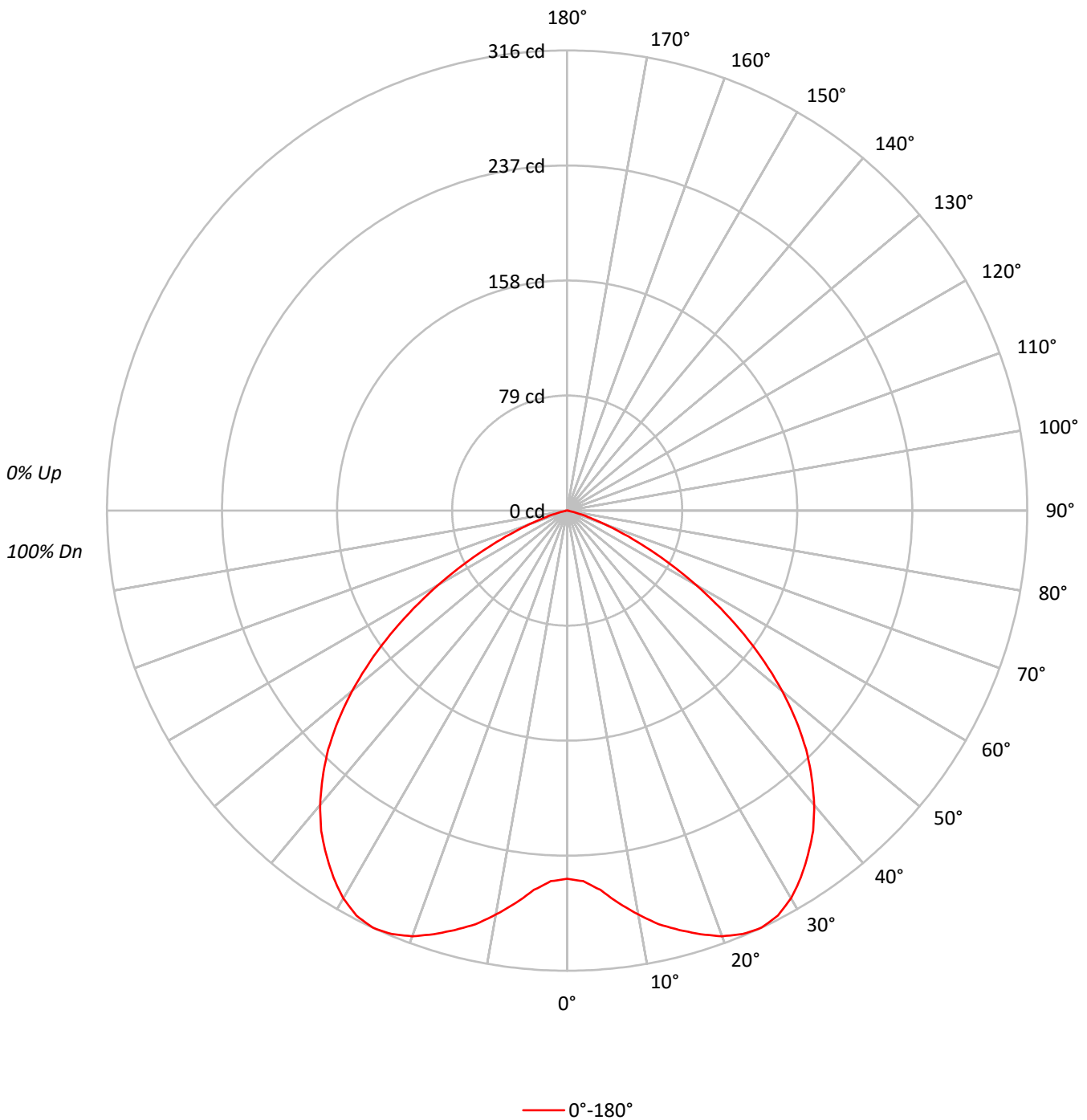
Input Watts (W): 10.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	22121
5°	22961
10°	25020
15°	27004
20°	28958
25°	30498
30°	31048
35°	30795
40°	30133
45°	28711
50°	26250
55°	22600
60°	17896
65°	12418
70°	7059
75°	2906
80°	604
85°	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	3.1
10°-20°	84.8	10.4
20°-30°	145.0	17.7
30°-40°	180.1	22.0
40°-50°	177.8	21.7
50°-60°	131.9	16.1
60°-70°	60.9	7.4
70°-80°	11.2	1.4
80°-90°	1.0	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°	255.4	31.2
0°-40°	435.6	53.2
0°-60°	745.3	91.1
0°-90°	818.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	818.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	253	
5°	262	26
15°	298	85
25°	316	145
35°	288	180
45°	232	178
55°	148	132
65°	60	61
75°	9	11
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	252.9
2.5°	254.7
5°	261.5
7.5°	271.9
10°	281.7
12.5°	290.9
15°	298.2
17.5°	305.0
20°	311.1
22.5°	314.8
25°	316.0
27.5°	313.5
30°	307.4
32.5°	298.8
35°	288.4
37.5°	277.4
40°	263.9
42.5°	248.6
45°	232.1
47.5°	213.1
50°	192.9
52.5°	170.9
55°	148.2
57.5°	124.9
60°	102.3
62.5°	80.2
65°	60.0
67.5°	42.3
70°	27.6
72.5°	16.5
75°	8.6
77.5°	3.1
80°	1.2
82.5°	1.2
85°	1.2
87.5°	0.6
90°	0.0

(END OF REPORT)