

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: P345365

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSBZ 1500Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345365
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 1500Lm3500K
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: 1081.9 lumens
Efficiency: N/A
Efficacy: 81.3 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

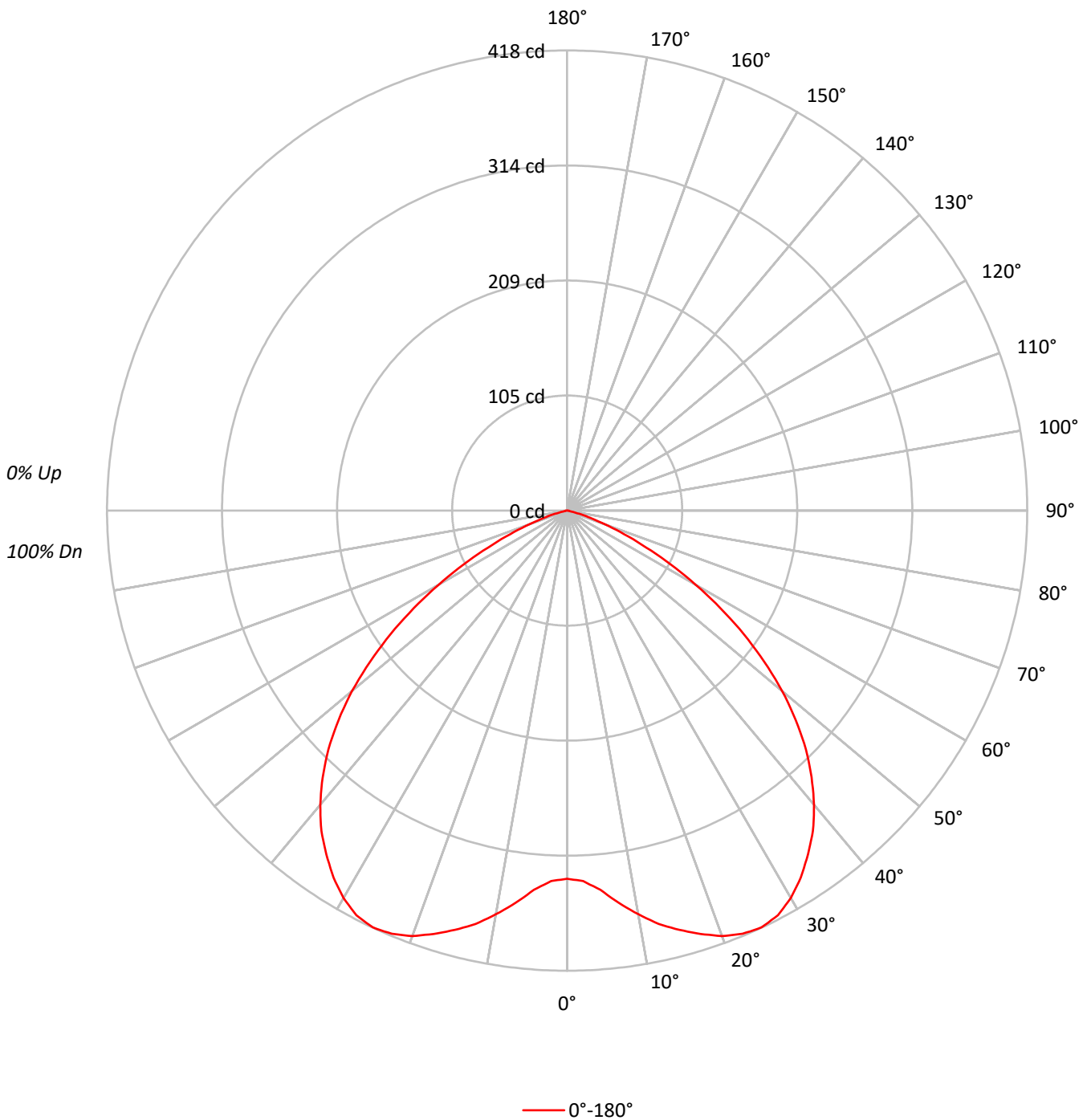
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	29250
5°	30354
10°	33076
15°	35706
20°	38285
25°	40323
30°	41047
35°	40715
40°	39839
45°	37951
50°	34700
55°	29874
60°	23652
65°	16413
70°	9309
75°	3819
80°	806
85°	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.9	3.1
10°-20°	112.1	10.4
20°-30°	191.7	17.7
30°-40°	238.2	22.0
40°-50°	235.0	21.7
50°-60°	174.4	16.1
60°-70°	80.5	7.4
70°-80°	14.7	1.4
80°-90°	1.3	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°	337.7	31.2
0°-40°	575.9	53.2
0°-60°	985.3	91.1
0°-90°	1081.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	334	
5°	346	34
15°	394	112
25°	418	192
35°	381	238
45°	307	235
55°	196	174
65°	79	81
75°	11	15
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	334.4
2.5°	336.8
5°	345.7
7.5°	359.5
10°	372.4
12.5°	384.6
15°	394.3
17.5°	403.2
20°	411.3
22.5°	416.1
25°	417.8
27.5°	414.5
30°	406.4
32.5°	395.1
35°	381.3
37.5°	366.8
40°	348.9
42.5°	328.7
45°	306.8
47.5°	281.7
50°	255.0
52.5°	225.9
55°	195.9
57.5°	165.2
60°	135.2
62.5°	106.1
65°	79.3
67.5°	55.9
70°	36.4
72.5°	21.9
75°	11.3
77.5°	4.0
80°	1.6
82.5°	1.6
85°	1.6
87.5°	0.8
90°	0.0

(END OF REPORT)