

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: P345257

Luminaire Tested: **PR4FS12D010 PR4M12MD8FSBZ 1500Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12MD8FSBZ 1500Lm3500K
Description: PR4 MEDIUM 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: 1098.1 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1/1/2001
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

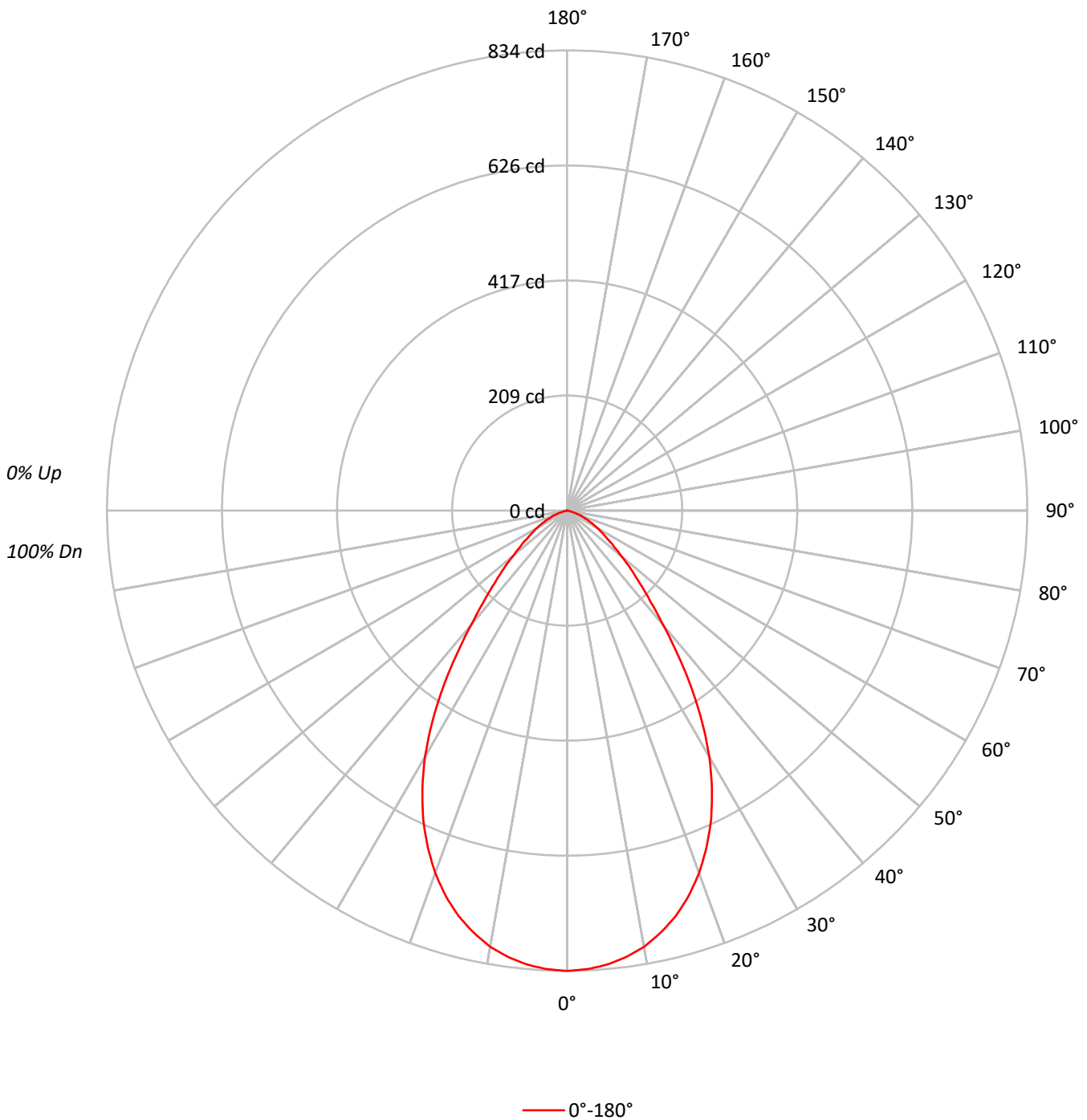
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	52	61	56	52	51
8	72	61	54	49	70	60	53	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72976
5°	72543
10°	71295
15°	68876
20°	65074
25°	59586
30°	52066
35°	41997
40°	30864
45°	23021
50°	17404
55°	13572
60°	11039
65°	8548
70°	6215
75°	3008
80°	806
85°	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	7.1
10°-20°	213.0	19.4
20°-30°	281.4	25.6
30°-40°	243.7	22.2
40°-50°	146.6	13.3
50°-60°	81.7	7.4
60°-70°	41.7	3.8
70°-80°	10.8	1.0
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°	572.5	52.1
0°-40°	816.2	74.3
0°-60°	1044.5	95.1
0°-90°	1098.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1098.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	834	
5°	826	78
15°	761	213
25°	617	281
35°	393	244
45°	186	147
55°	89	82
65°	41	42
75°	9	11
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	834.3
2.5°	831.9
5°	826.2
7.5°	816.5
10°	802.7
12.5°	783.3
15°	760.6
17.5°	732.3
20°	699.1
22.5°	660.3
25°	617.4
27.5°	568.1
30°	515.5
32.5°	455.6
35°	393.3
37.5°	329.3
40°	270.3
42.5°	223.3
45°	186.1
47.5°	156.2
50°	127.9
52.5°	106.8
55°	89.0
57.5°	75.3
60°	63.1
62.5°	51.8
65°	41.3
67.5°	32.4
70°	24.3
72.5°	16.2
75°	8.9
77.5°	3.2
80°	1.6
82.5°	1.6
85°	0.8
87.5°	0.8
90°	0.0

(END OF REPORT)