

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: P345256

Luminaire Tested: **PR4FS12D010 PR4M12MD8FSBZ 1500Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345256
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 1500Lm3000K
Description: PR4 MEDIUM LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1009.9 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1/1/2001
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

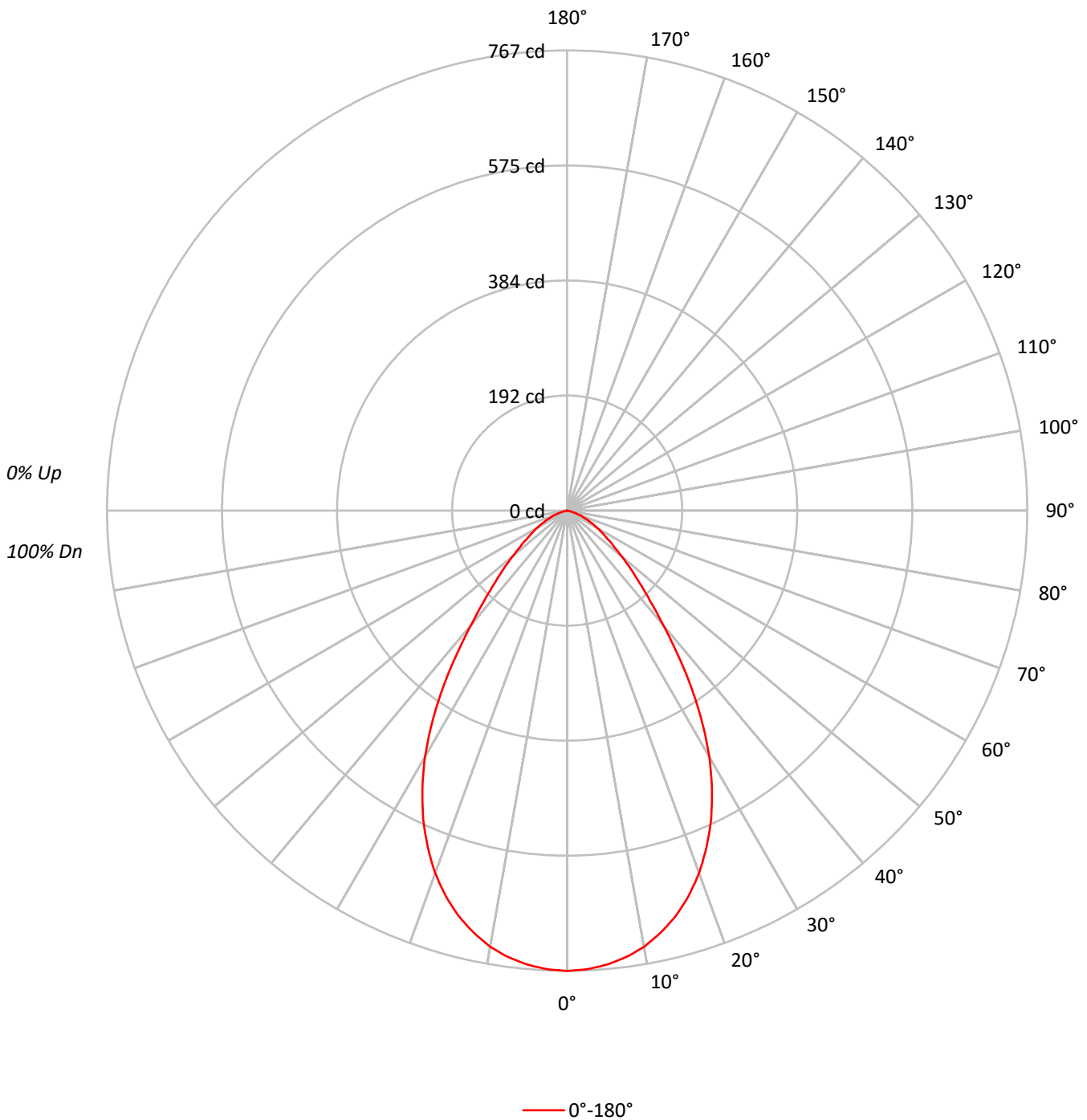
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	67115
5°	66713
10°	65575
15°	63352
20°	59852
25°	54799
30°	47885
35°	38622
40°	28386
45°	21178
50°	16003
55°	12490
60°	10146
65°	7865
70°	5703
75°	2771
80°	756
85°	703



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	7.1
10°-20°	195.9	19.4
20°-30°	258.8	25.6
30°-40°	224.1	22.2
40°-50°	134.8	13.3
50°-60°	75.1	7.4
60°-70°	38.4	3.8
70°-80°	10.0	1.0
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°	526.6	52.1
0°-40°	750.7	74.3
0°-60°	960.6	95.1
0°-90°	1009.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	767	
5°	760	72
15°	700	196
25°	568	259
35°	362	224
45°	171	135
55°	82	75
65°	38	38
75°	8	10
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	767.3
2.5°	765.1
5°	759.8
7.5°	750.9
10°	738.3
12.5°	720.4
15°	699.6
17.5°	673.5
20°	643.0
22.5°	607.3
25°	567.8
27.5°	522.4
30°	474.1
32.5°	419.0
35°	361.7
37.5°	302.9
40°	248.6
42.5°	205.4
45°	171.2
47.5°	143.6
50°	117.6
52.5°	98.2
55°	81.9
57.5°	69.2
60°	58.0
62.5°	47.6
65°	38.0
67.5°	29.8
70°	22.3
72.5°	14.9
75°	8.2
77.5°	3.0
80°	1.5
82.5°	1.5
85°	0.7
87.5°	0.7
90°	0.0

(END OF REPORT)