

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: P345276

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSBZ 3000Lm4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345276  
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: PR4FS24D010 PR4M24MD8FSBZ 3000Lm4000K  
Description: PR4 MEDIUM LENS WITH, BRONZE FINISH  
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2190.5 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Spacing Criteria (0/90/45): 1/1/2001  
Luminous Opening: Circular (Dia: 0.4' x H: 0')  
CIE Type: Direct

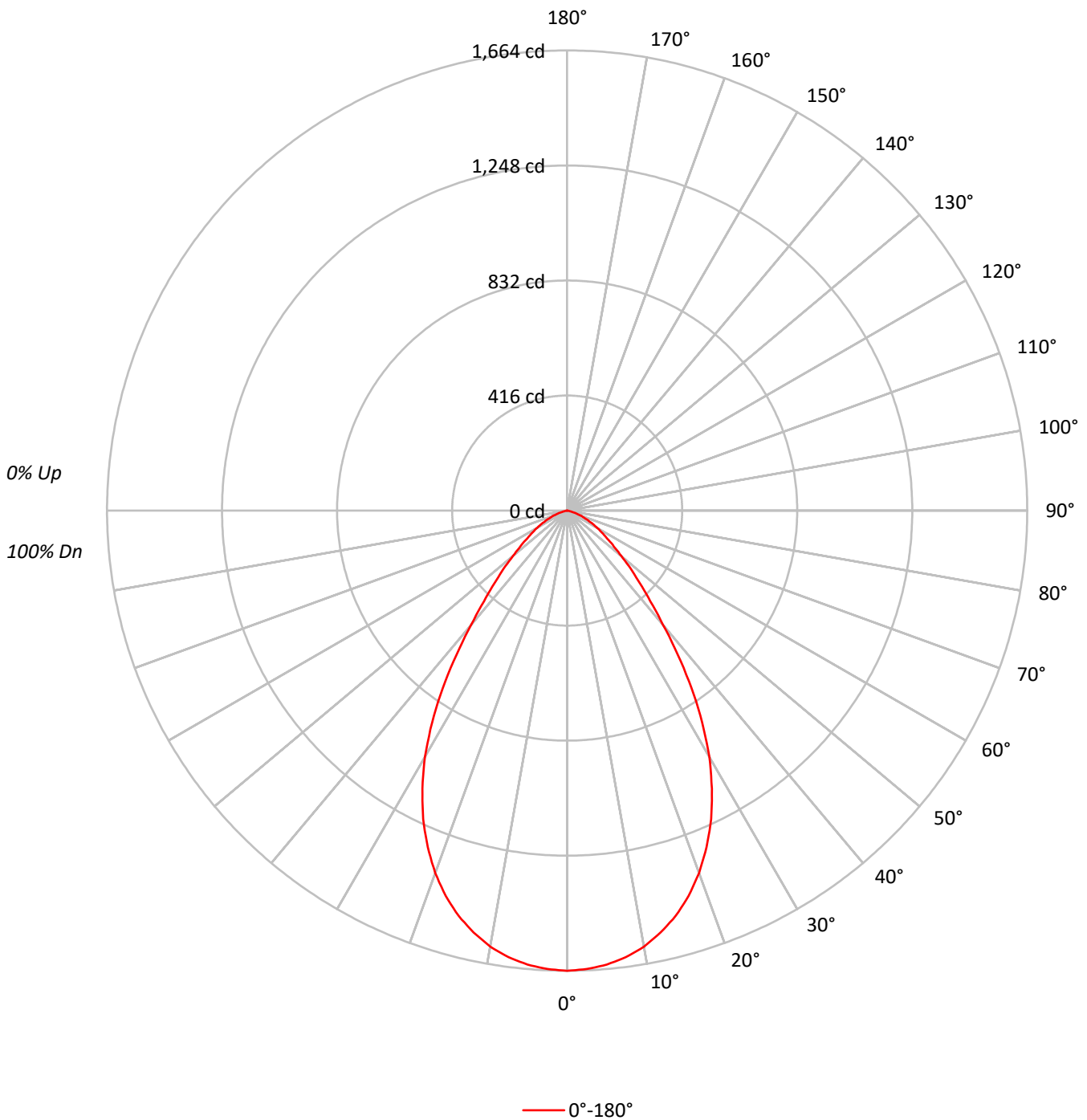
Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	145567
5°	144700
10°	142217
15°	137399
20°	129814
25°	118864
30°	103849
35°	83769
40°	61556
45°	45918
50°	34700
55°	27084
60°	22025
65°	17034
70°	12378
75°	6016
80°	1612
85°	1606



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.8	7.1
10°-20°	425.0	19.4
20°-30°	561.3	25.6
30°-40°	486.1	22.2
40°-50°	292.4	13.3
50°-60°	162.9	7.4
60°-70°	83.2	3.8
70°-80°	21.6	1.0
80°-90°	2.2	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°	1142.0	52.1
0°-40°	1628.2	74.3
0°-60°	2083.4	95.1
0°-90°	2190.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2190.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1664	
5°	1648	156
15°	1517	425
25°	1232	561
35°	784	486
45°	371	292
55°	178	163
65°	82	83
75°	18	22
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1664.2
2.5°	1659.3
5°	1648.0
7.5°	1628.7
10°	1601.2
12.5°	1562.5
15°	1517.3
17.5°	1460.8
20°	1394.6
22.5°	1317.1
25°	1231.6
27.5°	1133.1
30°	1028.2
32.5°	908.8
35°	784.5
37.5°	656.9
40°	539.1
42.5°	445.5
45°	371.2
47.5°	311.5
50°	255.0
52.5°	213.1
55°	177.6
57.5°	150.1
60°	125.9
62.5°	103.3
65°	82.3
67.5°	64.6
70°	48.4
72.5°	32.3
75°	17.8
77.5°	6.5
80°	3.2
82.5°	3.2
85°	1.6
87.5°	1.6
90°	0.0

(END OF REPORT)