

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: P345274

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSBZ 3000Lm3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345274  
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 3000Lm3000K  
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: 2054.3 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Spacing Criteria (0/90/45): 1/1/2001  
Luminous Opening: Circular (Dia: 0.4' x H: 0')  
CIE Type: Direct

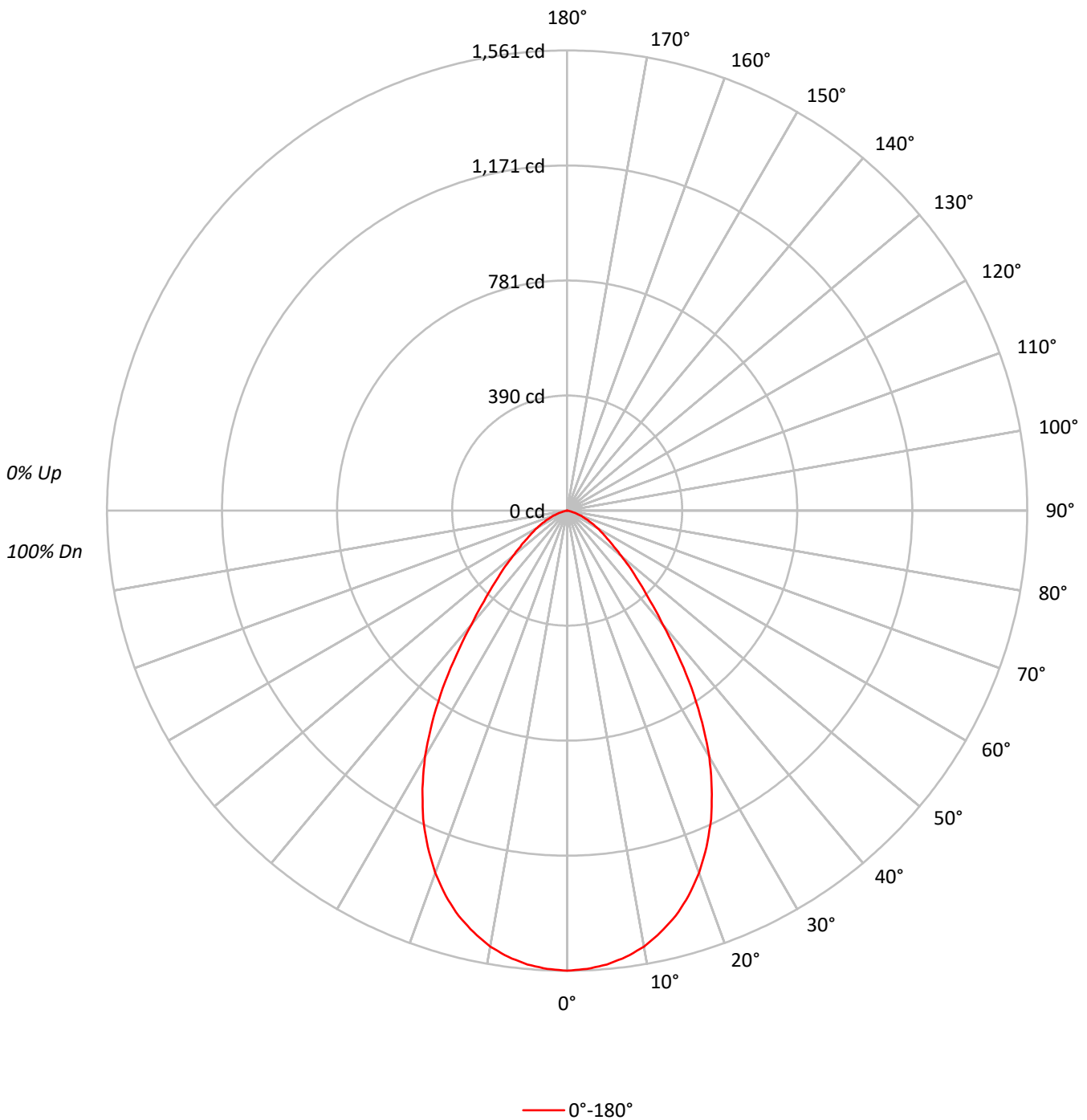
Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	136514
5°	135709
10°	133379
15°	128860
20°	121743
25°	111471
30°	97395
35°	78558
40°	57731
45°	43073
50°	32550
55°	25391
60°	20660
65°	15978
70°	11611
75°	5644
80°	1511
85°	1505



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	7.1
10°-20°	398.5	19.4
20°-30°	526.4	25.6
30°-40°	455.9	22.2
40°-50°	274.2	13.3
50°-60°	152.8	7.4
60°-70°	78.1	3.8
70°-80°	20.3	1.0
80°-90°	2.0	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°	1071.1	52.1
0°-40°	1526.9	74.3
0°-60°	1954.0	95.1
0°-90°	2054.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2054.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1561	
5°	1546	146
15°	1423	399
25°	1155	526
35°	736	456
45°	348	274
55°	166	153
65°	77	78
75°	17	20
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1560.7
2.5°	1556.2
5°	1545.6
7.5°	1527.4
10°	1501.7
12.5°	1465.3
15°	1423.0
17.5°	1370.0
20°	1307.9
22.5°	1235.2
25°	1155.0
27.5°	1062.7
30°	964.3
32.5°	852.3
35°	735.7
37.5°	616.1
40°	505.6
42.5°	417.8
45°	348.2
47.5°	292.2
50°	239.2
52.5°	199.8
55°	166.5
57.5°	140.8
60°	118.1
62.5°	96.9
65°	77.2
67.5°	60.6
70°	45.4
72.5°	30.3
75°	16.7
77.5°	6.1
80°	3.0
82.5°	3.0
85°	1.5
87.5°	1.5
90°	0.0

(END OF REPORT)