

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: P345384

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSBZ 3000Lm4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345384  
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: PR4FS24D010 PR4M24WD8FSBZ 3000Lm4000K  
Description: PR4 WIDE 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: 2158.2 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.57  
Luminous Opening: Circular (Dia: 0.4' x H: 0')  
CIE Type: Direct

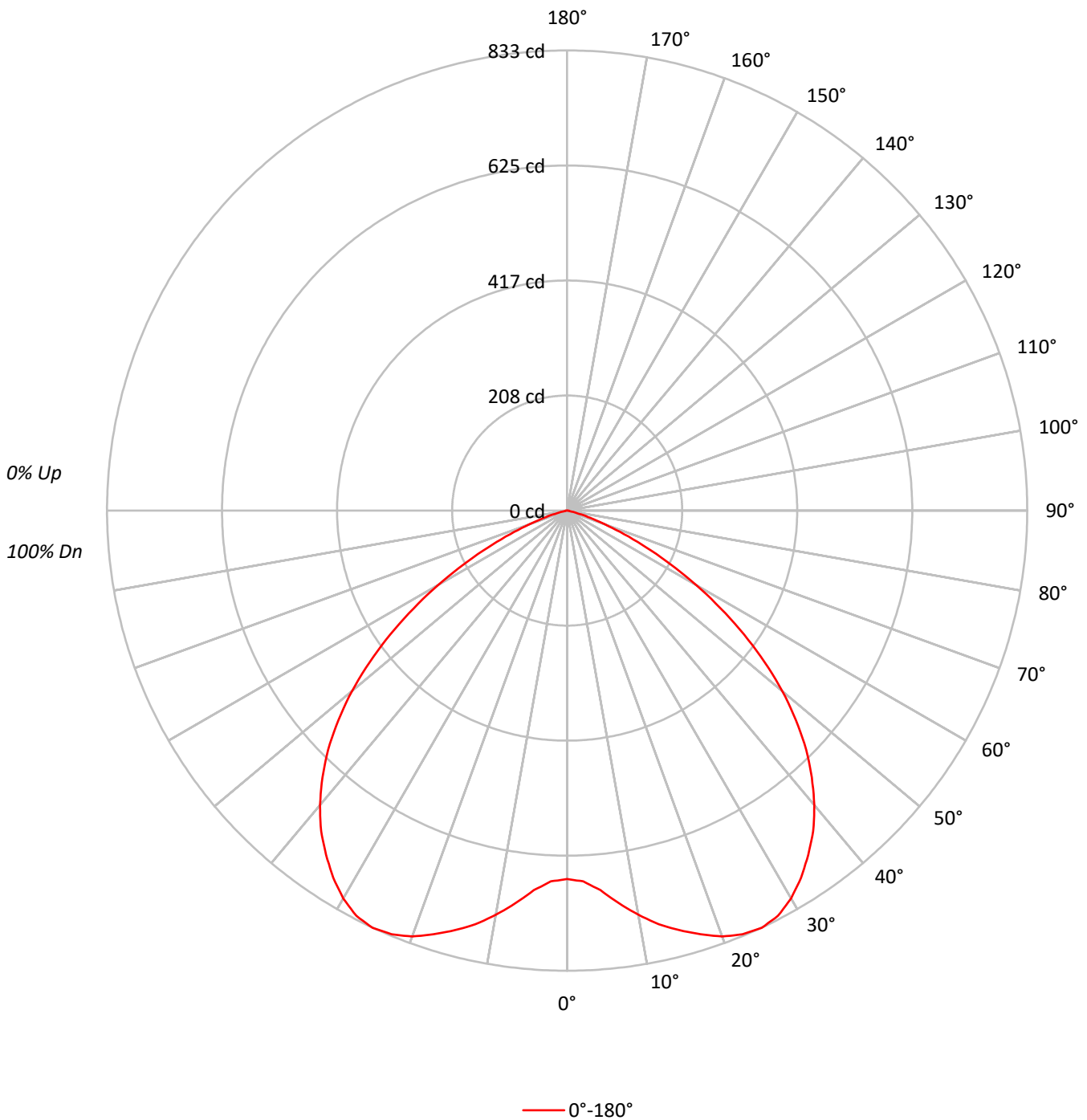
Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	50	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°	58342
5°	60549
10°	65983
15°	71222
20°	76365
25°	80423
30°	81882
35°	81228
40°	79483
45°	75717
50°	69223
55°	59596
60°	47181
65°	32763
70°	18593
75°	7638
80°	1612
85°	3212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.6	3.1
10°-20°	223.6	10.4
20°-30°	382.4	17.7
30°-40°	475.1	22.0
40°-50°	468.9	21.7
50°-60°	347.9	16.1
60°-70°	160.7	7.4
70°-80°	29.4	1.4
80°-90°	2.6	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°	673.7	31.2
0°-40°	1148.7	53.2
0°-60°	1965.5	91.1
0°-90°	2158.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2158.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	667	
5°	690	68
15°	786	224
25°	833	382
35°	761	475
45°	612	469
55°	391	348
65°	158	161
75°	23	29
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	667.0
2.5°	671.8
5°	689.6
7.5°	717.0
10°	742.9
12.5°	767.1
15°	786.5
17.5°	804.3
20°	820.4
22.5°	830.1
25°	833.3
27.5°	826.9
30°	810.7
32.5°	788.1
35°	760.7
37.5°	731.6
40°	696.1
42.5°	655.7
45°	612.1
47.5°	562.0
50°	508.7
52.5°	450.6
55°	390.8
57.5°	329.5
60°	269.7
62.5°	211.6
65°	158.3
67.5°	111.4
70°	72.7
72.5°	43.6
75°	22.6
77.5°	8.1
80°	3.2
82.5°	3.2
85°	3.2
87.5°	1.6
90°	0.0

(END OF REPORT)