

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: P345282

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSBZ 4000Lm4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345282  
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 4000Lm4000K  
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: 3142.8 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Spacing Criteria (0/90/45): 1/1/2001  
Luminous Opening: Circular (Dia: 0.4' x H: 0')  
CIE Type: Direct

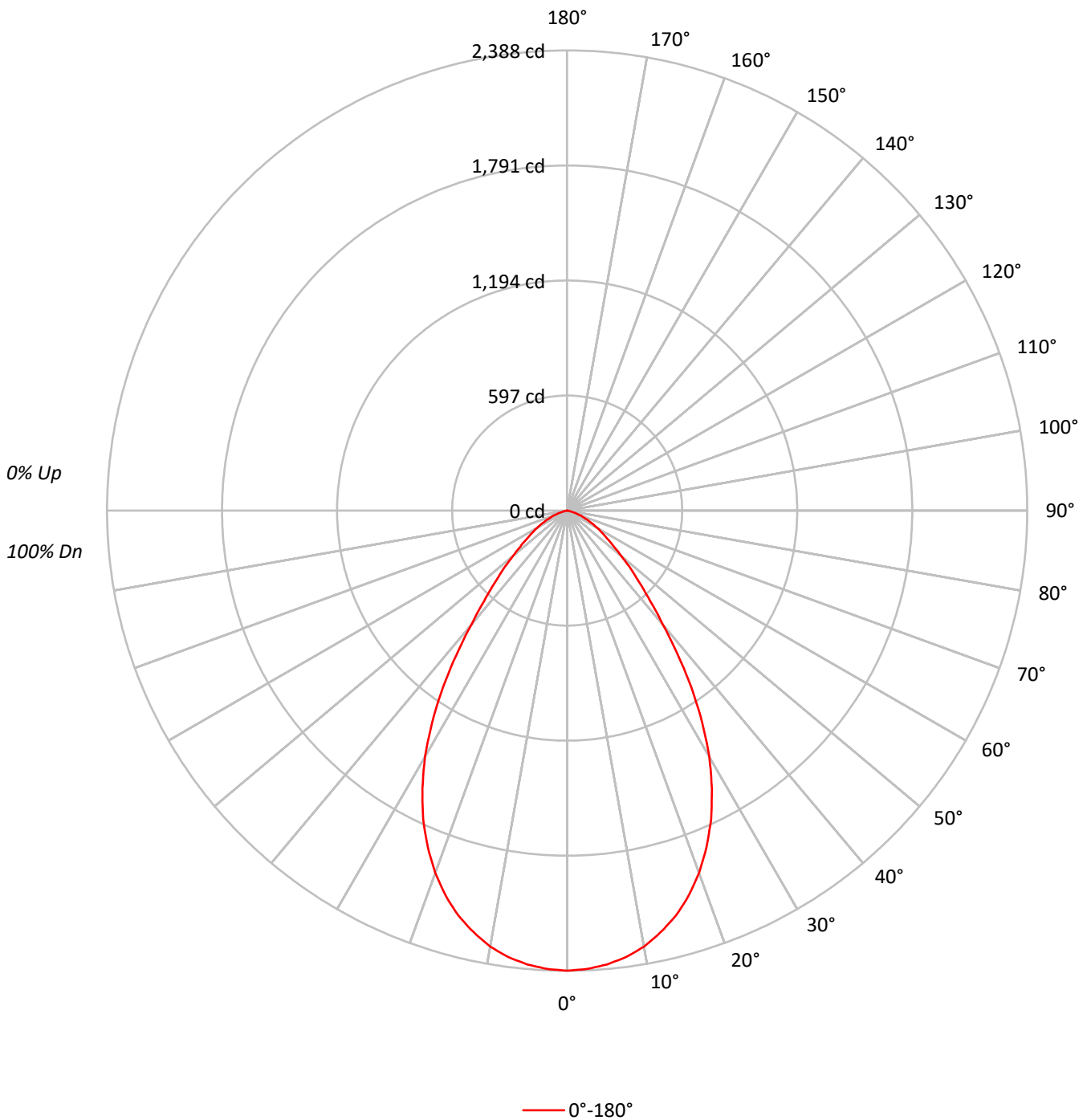
Input Watts (W): 45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	208851
5°	207620
10°	204052
15°	197138
20°	186259
25°	170536
30°	148997
35°	120181
40°	88321
45°	65895
50°	49791
55°	38857
60°	31594
65°	24443
70°	17774
75°	8618
80°	2317
85°	2308



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.6	7.1
10°-20°	609.7	19.4
20°-30°	805.3	25.6
30°-40°	697.5	22.2
40°-50°	419.5	13.3
50°-60°	233.7	7.4
60°-70°	119.4	3.8
70°-80°	31.0	1.0
80°-90°	3.1	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°	1638.6	52.1
0°-40°	2336.1	74.3
0°-60°	2989.3	95.1
0°-90°	3142.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3142.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2388	
5°	2365	224
15°	2177	610
25°	1767	805
35°	1126	697
45°	533	420
55°	255	234
65°	118	119
75°	26	31
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2387.7
2.5°	2380.8
5°	2364.6
7.5°	2336.8
10°	2297.4
12.5°	2241.8
15°	2177.0
17.5°	2095.9
20°	2001.0
22.5°	1889.8
25°	1767.0
27.5°	1625.8
30°	1475.2
32.5°	1303.9
35°	1125.5
37.5°	942.6
40°	773.5
42.5°	639.2
45°	532.7
47.5°	447.0
50°	365.9
52.5°	305.7
55°	254.8
57.5°	215.4
60°	180.6
62.5°	148.2
65°	118.1
67.5°	92.6
70°	69.5
72.5°	46.3
75°	25.5
77.5°	9.3
80°	4.6
82.5°	4.6
85°	2.3
87.5°	2.3
90°	0.0

(END OF REPORT)