

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: P345306

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSMW 2000Lm4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P345306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-4)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PR4FS24D010 PR4M24WD8FSMW 2000Lm4000K  
Description: PR4 WIDE LENS WITH, MATTE WHITE FINISH  
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2125.1 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.61 / 1.61 / 1.58  
Luminous Opening: Circular (Dia: 0.4' x H: 0')  
CIE Type: Direct

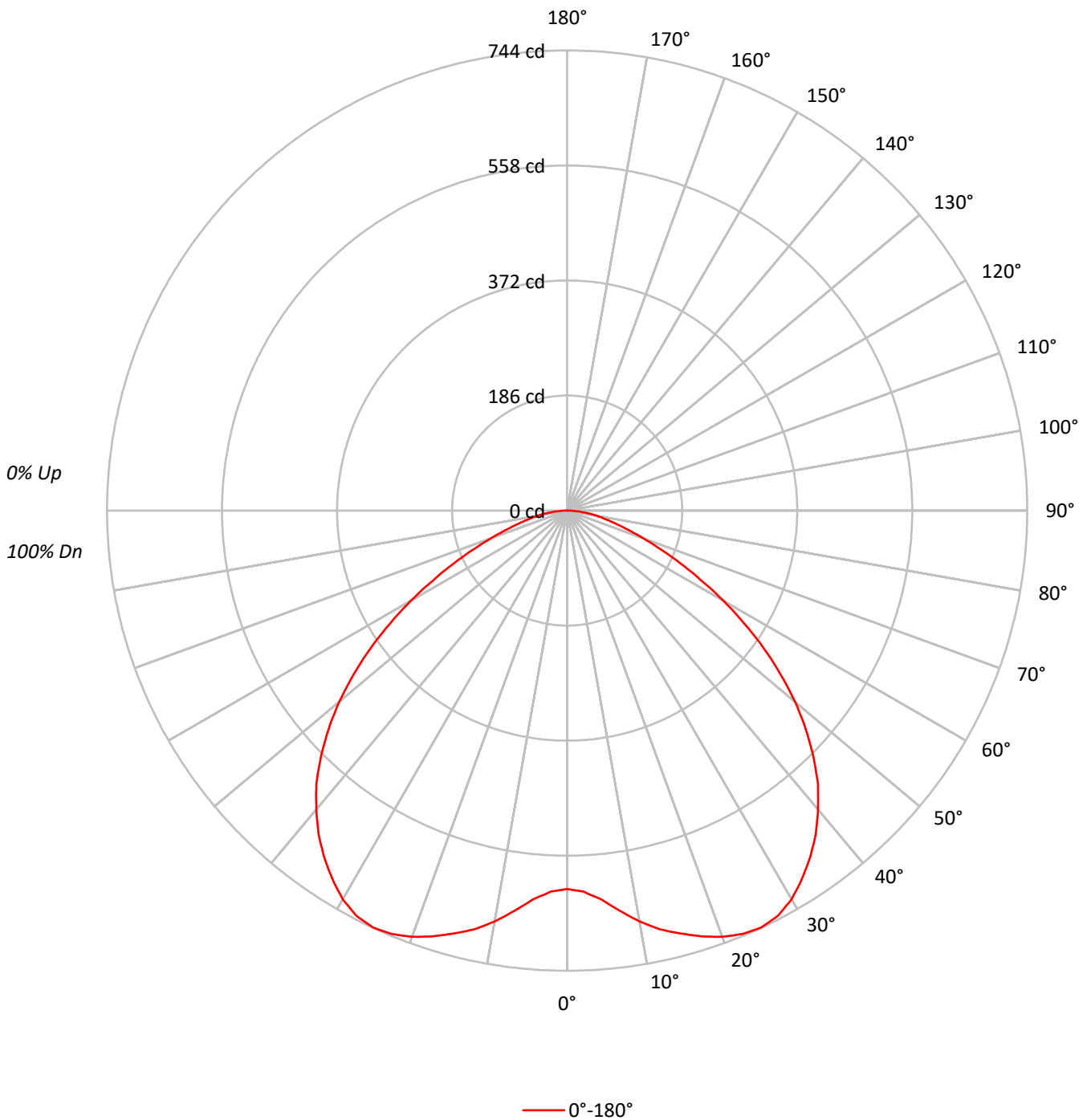
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	53505
5°	55395
10°	59899
15°	64086
20°	68258
25°	71757
30°	73286
35°	73102
40°	72038
45°	69656
50°	65481
55°	59139
60°	51047
65°	41849
70°	33375
75°	27239
80°	24481
85°	20574



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.7	2.9
10°-20°	201.2	9.5
20°-30°	341.5	16.1
30°-40°	427.5	20.1
40°-50°	432.6	20.4
50°-60°	345.7	16.3
60°-70°	202.9	9.5
70°-80°	88.4	4.2
80°-90°	23.7	1.1
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°	604.4	28.4
0°-40°	1031.9	48.6
0°-60°	1810.2	85.2
0°-90°	2125.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2125.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	612	
5°	631	62
15°	708	201
25°	744	342
35°	685	428
45°	563	433
55°	388	346
65°	202	203
75°	81	88
85°	20	24
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	611.7
2.5°	616.8
5°	630.9
7.5°	652.7
10°	674.4
12.5°	693.6
15°	707.7
17.5°	721.8
20°	733.3
22.5°	741.0
25°	743.5
27.5°	738.4
30°	725.6
32.5°	706.4
35°	684.6
37.5°	660.3
40°	630.9
42.5°	600.2
45°	563.1
47.5°	523.4
50°	481.2
52.5°	435.1
55°	387.8
57.5°	339.1
60°	291.8
62.5°	244.4
65°	202.2
67.5°	163.8
70°	130.5
72.5°	102.4
75°	80.6
77.5°	62.7
80°	48.6
82.5°	34.6
85°	20.5
87.5°	7.7
90°	0.0

(END OF REPORT)