

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: P345235

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSMMS 2000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24MD9FSMMS 2000Lm3000K
Description: PR4 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1570.4 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.02
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

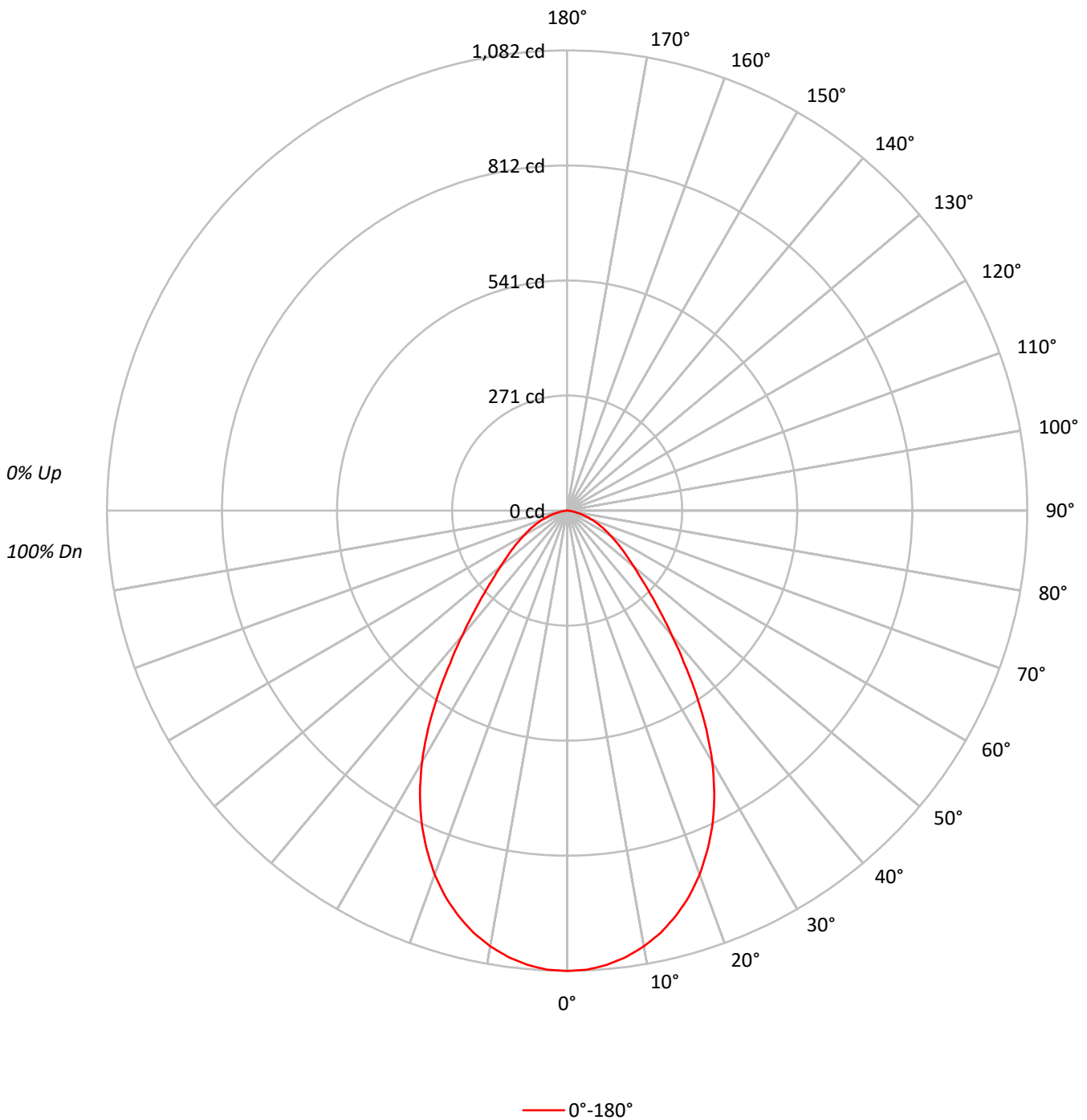
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	94686
5°	94143
10°	92398
15°	89369
20°	84780
25°	78184
30°	68943
35°	56636
40°	43778
45°	34203
50°	27692
55°	23835
60°	20678
65°	18296
70°	15779
75°	12504
80°	8815
85°	5118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	6.5
10°-20°	276.7	17.6
20°-30°	369.4	23.5
30°-40°	329.7	21.0
40°-50°	217.1	13.8
50°-60°	140.7	9.0
60°-70°	87.8	5.6
70°-80°	40.2	2.6
80°-90°	7.4	0.5
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°	747.4	47.6
0°-40°	1077.1	68.6
0°-60°	1435.0	91.4
0°-90°	1570.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1570.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1082	
5°	1072	101
15°	987	277
25°	810	369
35°	530	330
45°	276	217
55°	156	141
65°	88	88
75°	37	40
85°	5	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1082.5
2.5°	1080.4
5°	1072.2
7.5°	1058.8
10°	1040.3
12.5°	1016.7
15°	986.9
17.5°	951.9
20°	910.8
22.5°	862.5
25°	810.1
27.5°	749.4
30°	682.6
32.5°	608.6
35°	530.4
37.5°	451.3
40°	383.4
42.5°	325.9
45°	276.5
47.5°	235.4
50°	203.5
52.5°	177.8
55°	156.3
57.5°	135.7
60°	118.2
62.5°	102.8
65°	88.4
67.5°	74.0
70°	61.7
72.5°	49.3
75°	37.0
77.5°	26.7
80°	17.5
82.5°	10.3
85°	5.1
87.5°	3.1
90°	0.0

(END OF REPORT)