

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: P345236

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSMMS 2000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345236
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 2000Lm3500K
Description: PR4 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1679.7 lumens
Efficiency: N/A
Efficacy: 82.3 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

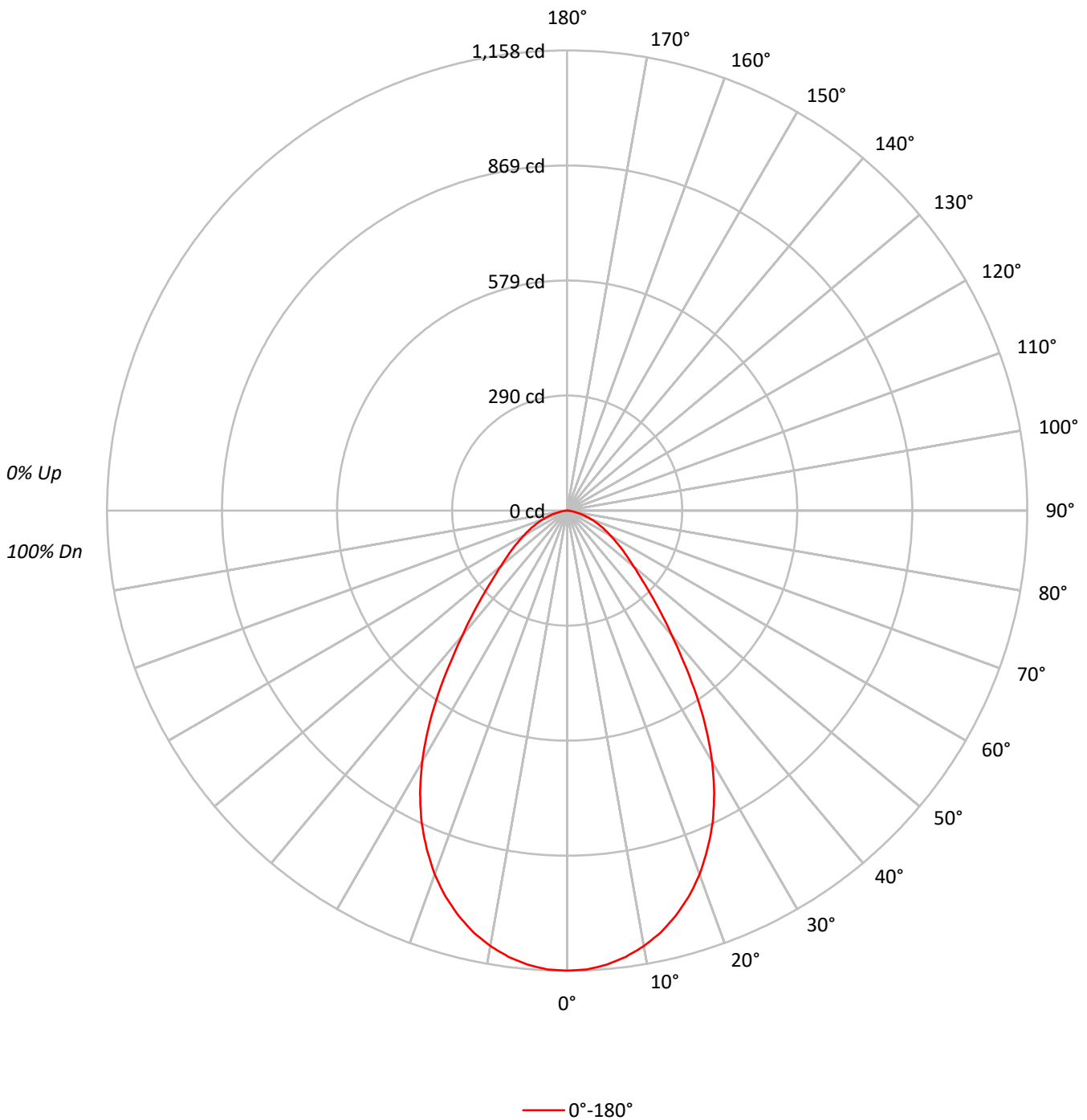
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345236

CATALOG NUMBER: PR4FS24D010 PR4M24MD9FSMMS 2000Lm3500K

Luminous Intensity Polar Plot





TEST NUMBER: P345236

CATALOG NUMBER: PR4FS24D010 PR4M24MD9FSMMS 2000Lm3500K

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°	101272
5°	100693
10°	98829
15°	95590
20°	90681
25°	83618
30°	73741
35°	60587
40°	46827
45°	36591
50°	29624
55°	25482
60°	22112
65°	19579
70°	16879
75°	13383
80°	9419
85°	5520



TEST NUMBER: P345236

CATALOG NUMBER: PR4FS24D010 PR4M24MD9FSMMS 2000Lm3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	6.5
10°-20°	296.0	17.6
20°-30°	395.1	23.5
30°-40°	352.7	21.0
40°-50°	232.2	13.8
50°-60°	150.5	9.0
60°-70°	93.9	5.6
70°-80°	43.0	2.6
80°-90°	7.9	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°	799.4	47.6
0°-40°	1152.1	68.6
0°-60°	1534.9	91.4
0°-90°	1679.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1158	
5°	1147	108
15°	1056	296
25°	866	395
35°	567	353
45°	296	232
55°	167	150
65°	95	94
75°	40	43
85°	6	8
90°	0	



TEST NUMBER: P345236

CATALOG NUMBER: PR4FS24D010 PR4M24MD9FSMMS 2000Lm3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1157.8
2.5°	1155.6
5°	1146.8
7.5°	1132.5
10°	1112.7
12.5°	1087.5
15°	1055.6
17.5°	1018.2
20°	974.2
22.5°	922.5
25°	866.4
27.5°	801.6
30°	730.1
32.5°	650.9
35°	567.4
37.5°	482.7
40°	410.1
42.5°	348.6
45°	295.8
47.5°	251.8
50°	217.7
52.5°	190.2
55°	167.1
57.5°	145.1
60°	126.4
62.5°	110.0
65°	94.6
67.5°	79.2
70°	66.0
72.5°	52.8
75°	39.6
77.5°	28.6
80°	18.7
82.5°	11.0
85°	5.5
87.5°	3.3
90°	0.0

(END OF REPORT)