

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: P345247

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSMMS 4000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345247
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 4000Lm3000K
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: 2878.2 lumens
Efficiency: N/A
Efficacy: 64.0 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

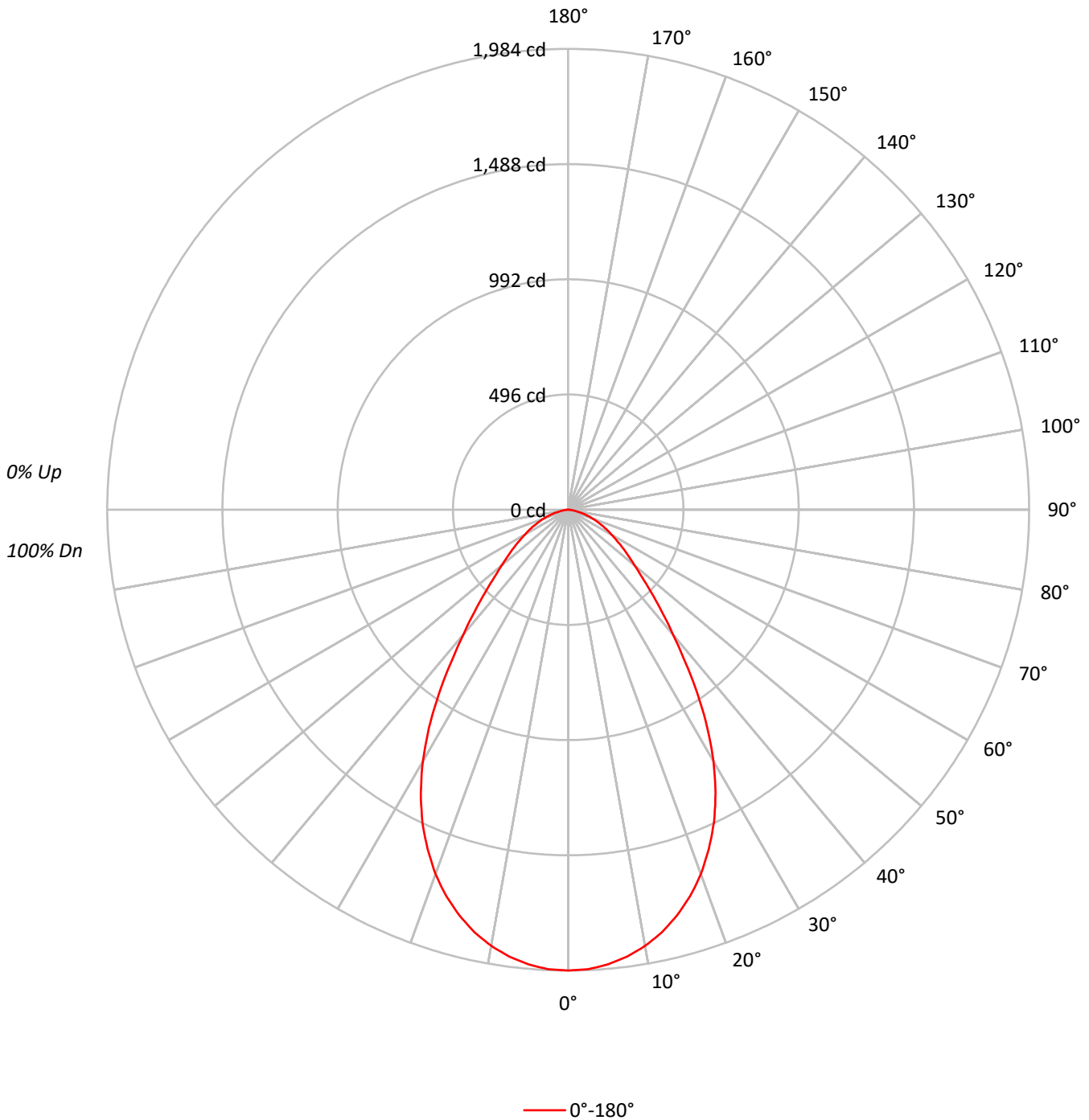
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345247

CATALOG NUMBER: PR4FS24D010 PR4M24MD9FSMMS 4000Lm3000K

Luminous Intensity Polar Plot





TEST NUMBER: P345247

CATALOG NUMBER: PR4FS24D010 PR4M24MD9FSMMS 4000Lm3000K

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°	173539
5°	172543
10°	169351
15°	163796
20°	155384
25°	143291
30°	126362
35°	103812
40°	80248
45°	62691
50°	50771
55°	43676
60°	37909
65°	33529
70°	28899
75°	22913
80°	16119
85°	9434



TEST NUMBER: P345247

CATALOG NUMBER: PR4FS24D010 PR4M24MD9FSMMS 4000Lm3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	6.5
10°-20°	507.2	17.6
20°-30°	677.0	23.5
30°-40°	604.3	21.0
40°-50°	398.0	13.8
50°-60°	257.9	9.0
60°-70°	160.9	5.6
70°-80°	73.7	2.6
80°-90°	13.6	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°	1369.9	47.6
0°-40°	1974.2	68.6
0°-60°	2630.1	91.4
0°-90°	2878.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1984	
5°	1965	186
15°	1809	507
25°	1485	677
35°	972	604
45°	507	398
55°	286	258
65°	162	161
75°	68	74
85°	9	14
90°	0	



TEST NUMBER: P345247

CATALOG NUMBER: PR4FS24D010 PR4M24MD9FSMMS 4000Lm3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1984.0
2.5°	1980.2
5°	1965.1
7.5°	1940.6
10°	1906.7
12.5°	1863.4
15°	1808.8
17.5°	1744.7
20°	1669.3
22.5°	1580.8
25°	1484.7
27.5°	1373.5
30°	1251.1
32.5°	1115.4
35°	972.2
37.5°	827.1
40°	702.8
42.5°	597.3
45°	506.8
47.5°	431.5
50°	373.1
52.5°	326.0
55°	286.4
57.5°	248.7
60°	216.7
62.5°	188.4
65°	162.0
67.5°	135.7
70°	113.0
72.5°	90.4
75°	67.8
77.5°	49.0
80°	32.0
82.5°	18.8
85°	9.4
87.5°	5.7
90°	0.0

(END OF REPORT)