

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: P345355

Luminaire Tested: **PR4FS24D010 PR4M24WD9FSMMS 4000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24WD9FSMMS 4000Lm3000K
Description: PR4 WIDE 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: 2919.7 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 1.65 / 1.65 / 1.6
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

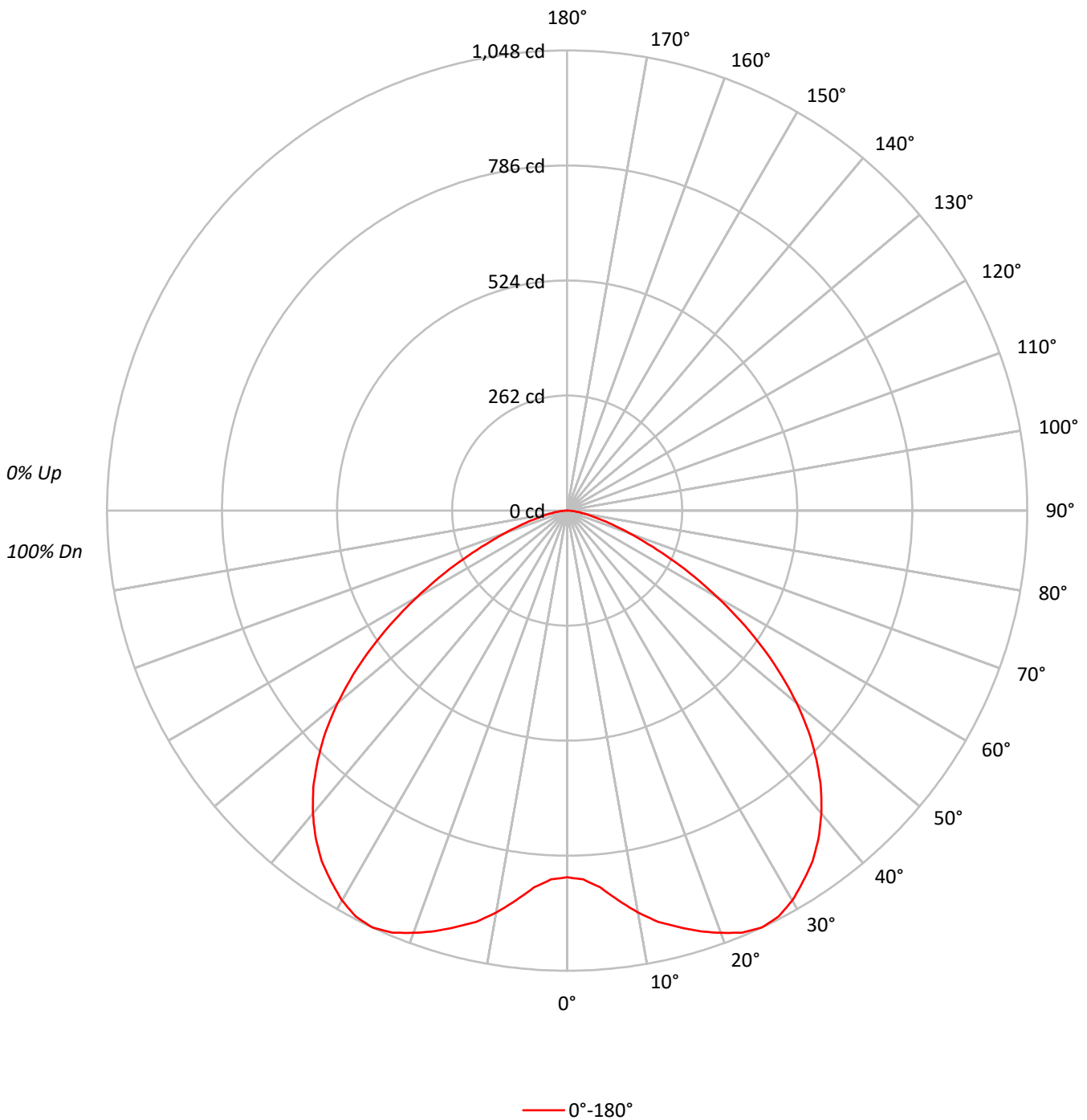
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345355

CATALOG NUMBER: PR4FS24D010 PR4M24WD9FSMMS 4000Lm3000K

Luminous Intensity Polar Plot





TEST NUMBER: P345355

CATALOG NUMBER: PR4FS24D010 PR4M24WD9FSMMS 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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	73037
5°	75634
10°	82530
15°	88925
20°	95261
25°	101144
30°	103556
35°	104047
40°	102868
45°	99319
50°	92846
55°	82776
60°	69241
65°	53833
70°	38566
75°	26766
80°	18990
85°	13248



TEST NUMBER: P345355

CATALOG NUMBER: PR4FS24D010 PR4M24WD9FSMMS 4000Lm3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	2.9
10°-20°	279.3	9.6
20°-30°	480.8	16.5
30°-40°	607.7	20.8
40°-50°	616.6	21.1
50°-60°	483.2	16.6
60°-70°	261.3	8.9
70°-80°	89.3	3.1
80°-90°	16.9	0.6
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°	844.7	28.9
0°-40°	1452.3	49.7
0°-60°	2552.2	87.4
0°-90°	2919.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2919.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	835	
5°	861	85
15°	982	279
25°	1048	481
35°	974	608
45°	803	617
55°	543	483
65°	260	261
75°	79	89
85°	13	17
90°	0	



TEST NUMBER: P345355

CATALOG NUMBER: PR4FS24D010 PR4M24WD9FSMMS 4000Lm3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	835.0
2.5°	840.6
5°	861.4
7.5°	895.3
10°	929.2
12.5°	959.4
15°	982.0
17.5°	1004.6
20°	1023.4
22.5°	1040.4
25°	1048.0
27.5°	1042.3
30°	1025.3
32.5°	1000.8
35°	974.4
37.5°	940.5
40°	900.9
42.5°	855.7
45°	802.9
47.5°	746.4
50°	682.3
52.5°	614.4
55°	542.8
57.5°	469.3
60°	395.8
62.5°	326.1
65°	260.1
67.5°	199.8
70°	150.8
72.5°	111.2
75°	79.2
77.5°	54.7
80°	37.7
82.5°	24.5
85°	13.2
87.5°	5.7
90°	0.0

(END OF REPORT)