

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: P345245

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSMMS 4000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345245
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 PR4M24MD8FSMMS 4000Lm3500K
Description: PR4 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3683.5 lumens
Efficiency: N/A
Efficacy: 94.4 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

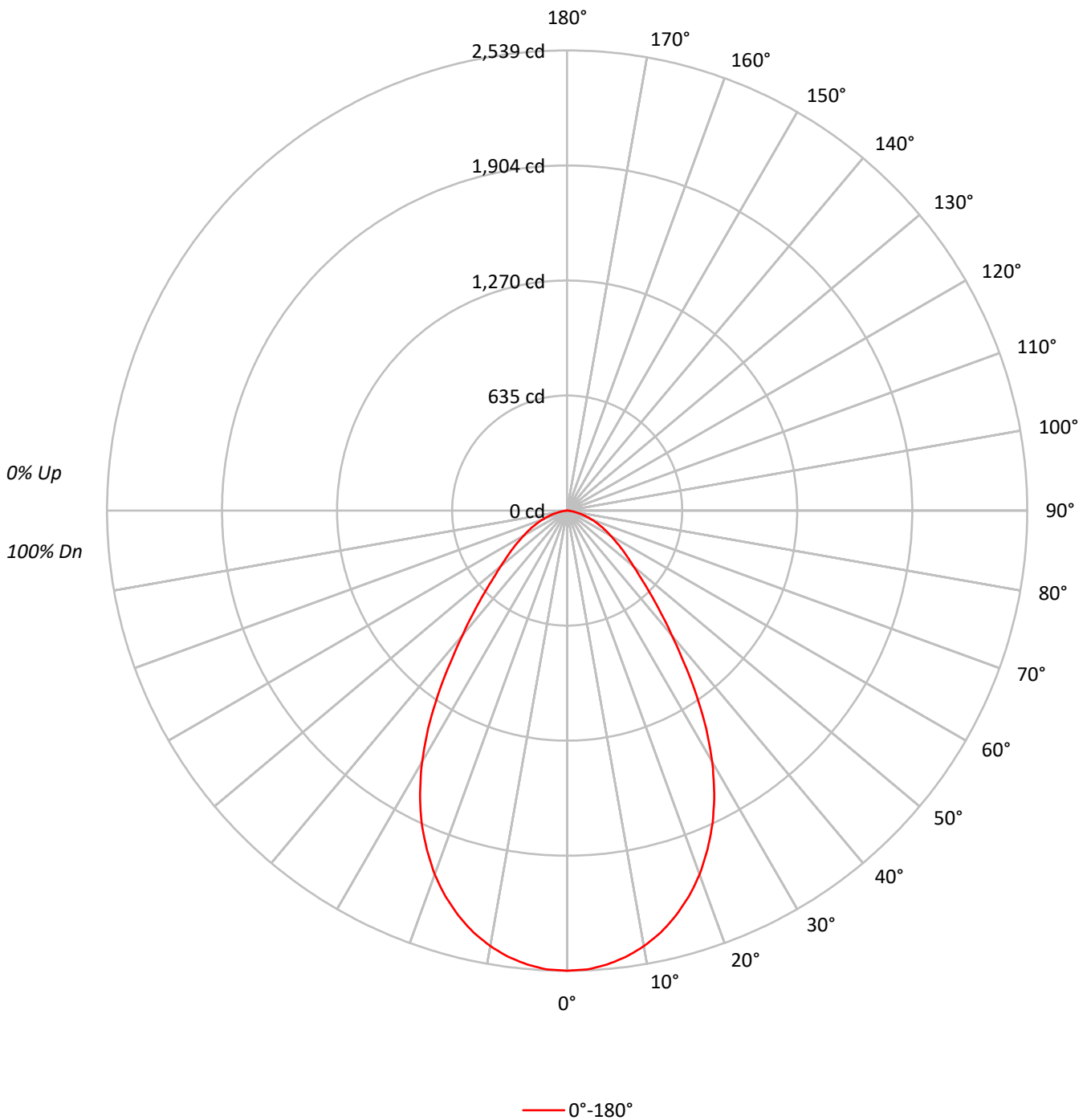
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345245

CATALOG NUMBER: PR4FS24D010 PR4M24MD8FSMMS 4000Lm3500K

Luminous Intensity Polar Plot





TEST NUMBER: P345245

CATALOG NUMBER: PR4FS24D010 PR4M24MD8FSMMS 4000Lm3500K

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°	222094
5°	220826
10°	216736
15°	209617
20°	198863
25°	183382
30°	161713
35°	132856
40°	102696
45°	80232
50°	64964
55°	55891
60°	48511
65°	42926
70°	37006
75°	29335
80°	20652
85°	12144



TEST NUMBER: P345245

CATALOG NUMBER: PR4FS24D010 PR4M24MD8FSMMS 4000Lm3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	6.5
10°-20°	649.1	17.6
20°-30°	866.4	23.5
30°-40°	773.4	21.0
40°-50°	509.3	13.8
50°-60°	330.1	9.0
60°-70°	205.9	5.6
70°-80°	94.3	2.6
80°-90°	17.4	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°	1753.2	47.6
0°-40°	2526.6	68.6
0°-60°	3366.0	91.4
0°-90°	3683.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3683.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2539	
5°	2515	238
15°	2315	649
25°	1900	866
35°	1244	773
45°	649	509
55°	366	330
65°	207	206
75°	87	94
85°	12	17
90°	0	



TEST NUMBER: P345245

CATALOG NUMBER: PR4FS24D010 PR4M24MD8FSMMS 4000Lm3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2539.1
2.5°	2534.3
5°	2515.0
7.5°	2483.6
10°	2440.2
12.5°	2384.8
15°	2314.8
17.5°	2232.8
20°	2136.4
22.5°	2023.1
25°	1900.1
27.5°	1757.8
30°	1601.1
32.5°	1427.5
35°	1244.2
37.5°	1058.6
40°	899.4
42.5°	764.4
45°	648.6
47.5°	552.2
50°	477.4
52.5°	417.2
55°	366.5
57.5°	318.3
60°	277.3
62.5°	241.1
65°	207.4
67.5°	173.6
70°	144.7
72.5°	115.7
75°	86.8
77.5°	62.7
80°	41.0
82.5°	24.1
85°	12.1
87.5°	7.2
90°	0.0

(END OF REPORT)