

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: P345346

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSMMS 3000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345346
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 PR4M24WD8FSMMS 3000Lm3000K
Description: PR4 WIDE LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2345.0 lumens
Efficiency: N/A
Efficacy: 82.3 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

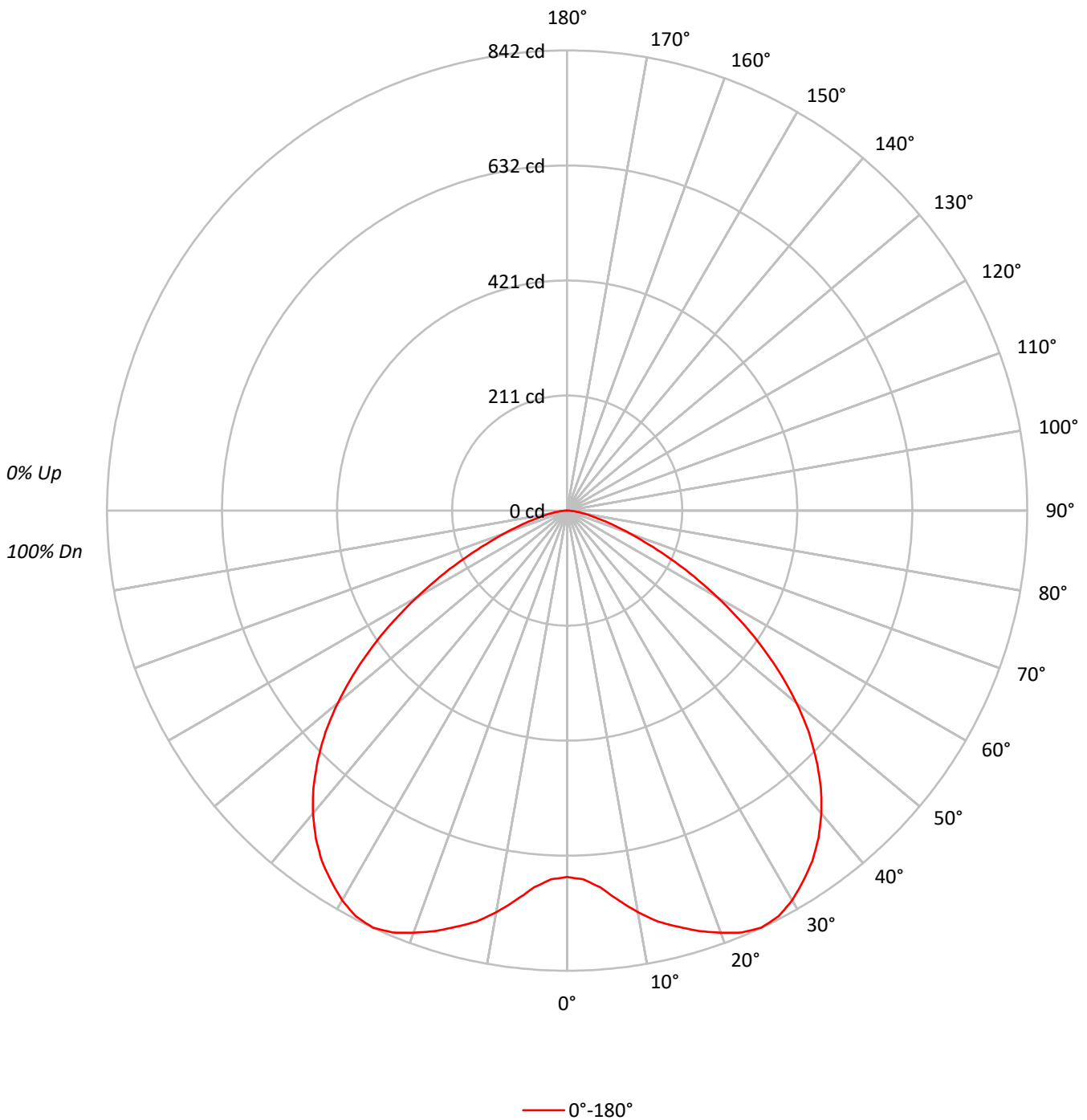
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345346

CATALOG NUMBER: PR4FS24D010 PR4M24WD8FSMMS 3000Lm3000K

Luminous Intensity Polar Plot





TEST NUMBER: P345346

CATALOG NUMBER: PR4FS24D010 PR4M24WD8FSMMS 3000Lm3000K

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°	58657
5°	60743
10°	66285
15°	71421
20°	76514
25°	81234
30°	83174
35°	83566
40°	82623
45°	79774
50°	74571
55°	66489
60°	55613
65°	43236
70°	30971
75°	21494
80°	15263
85°	10638



TEST NUMBER: P345346

CATALOG NUMBER: PR4FS24D010 PR4M24WD8FSMMS 3000Lm3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	2.9
10°-20°	224.3	9.6
20°-30°	386.2	16.5
30°-40°	488.1	20.8
40°-50°	495.2	21.1
50°-60°	388.1	16.6
60°-70°	209.9	8.9
70°-80°	71.7	3.1
80°-90°	13.6	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
<hr/>		
0°-30°	678.4	28.9
0°-40°	1166.4	49.7
0°-60°	2049.8	87.4
0°-90°	2345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2345.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	671	
5°	692	68
15°	789	224
25°	842	386
35°	783	488
45°	645	495
55°	436	388
65°	209	210
75°	64	72
85°	11	14
90°	0	



TEST NUMBER: P345346

CATALOG NUMBER: PR4FS24D010 PR4M24WD8FSMMS 3000Lm3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	670.6
2.5°	675.1
5°	691.8
7.5°	719.0
10°	746.3
12.5°	770.5
15°	788.7
17.5°	806.8
20°	822.0
22.5°	835.6
25°	841.7
27.5°	837.1
30°	823.5
32.5°	803.8
35°	782.6
37.5°	755.4
40°	723.6
42.5°	687.2
45°	644.9
47.5°	599.5
50°	548.0
52.5°	493.5
55°	436.0
57.5°	376.9
60°	317.9
62.5°	261.9
65°	208.9
67.5°	160.5
70°	121.1
72.5°	89.3
75°	63.6
77.5°	43.9
80°	30.3
82.5°	19.7
85°	10.6
87.5°	4.5
90°	0.0

(END OF REPORT)