

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: P345330

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSMMS 1500Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345330
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: PR4FS12D010 PR4M12WD8FSMMS 1500Lm4000K
Description: PR4 WIDE LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1223.6 lumens
Efficiency: N/A
Efficacy: 88.0 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

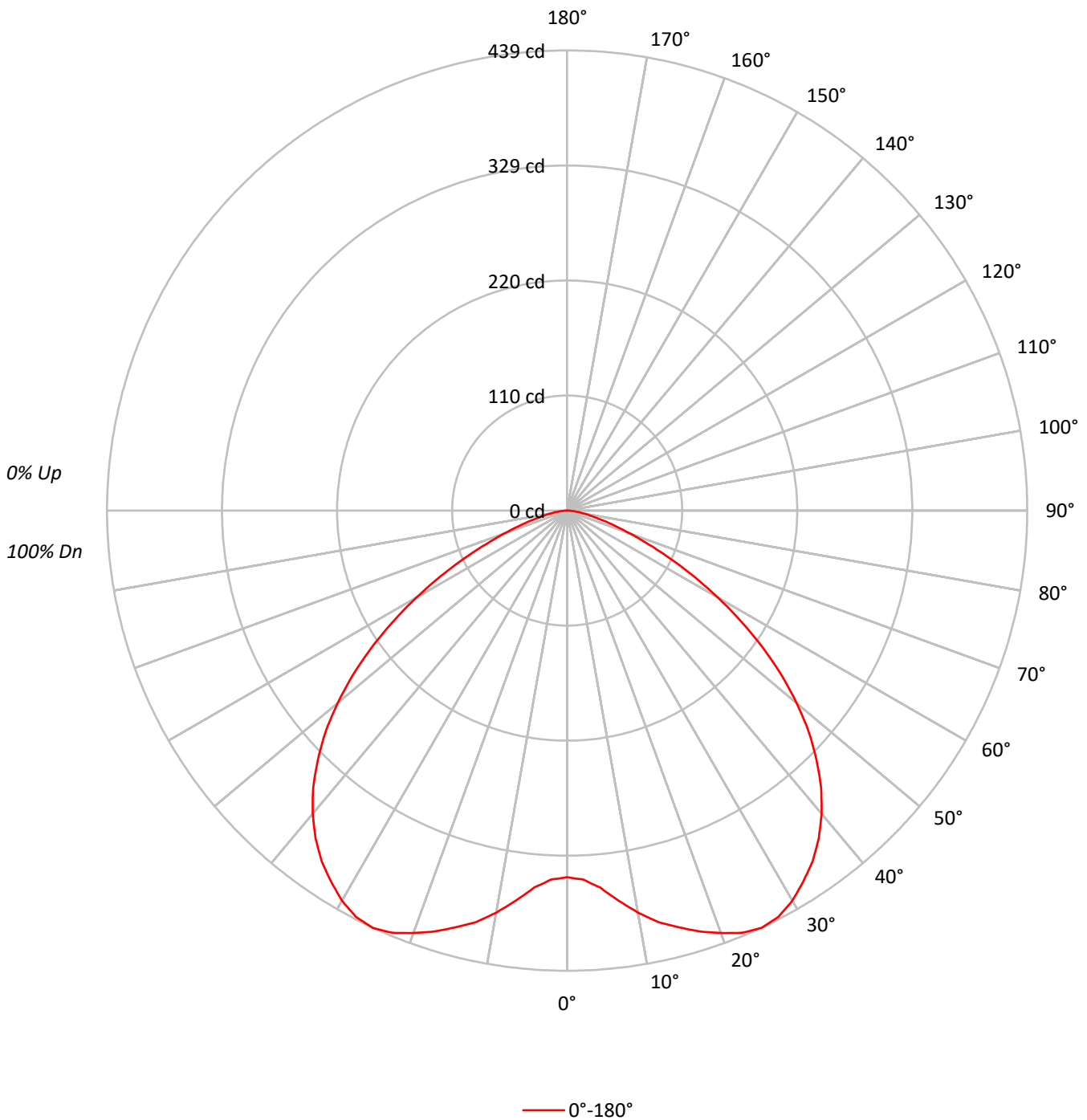
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345330

CATALOG NUMBER: PR4FS12D010 PR4M12WD8FSMMS 1500Lm4000K

Luminous Intensity Polar Plot





TEST NUMBER: P345330

CATALOG NUMBER: PR4FS12D010 PR4M12WD8FSMMS 1500Lm4000K

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°	30606
5°	31697
10°	34586
15°	37263
20°	39923
25°	42388
30°	43400
35°	43609
40°	43116
45°	41625
50°	38905
55°	34693
60°	29022
65°	22560
70°	16163
75°	11220
80°	7959
85°	5520



TEST NUMBER: P345330

CATALOG NUMBER: PR4FS12D010 PR4M12WD8FSMMS 1500Lm4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	2.9
10°-20°	117.0	9.6
20°-30°	201.5	16.5
30°-40°	254.7	20.8
40°-50°	258.4	21.1
50°-60°	202.5	16.6
60°-70°	109.5	8.9
70°-80°	37.4	3.1
80°-90°	7.1	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°	354.0	28.9
0°-40°	608.7	49.7
0°-60°	1069.6	87.4
0°-90°	1223.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1223.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	350	
5°	361	35
15°	412	117
25°	439	202
35°	408	255
45°	336	258
55°	228	203
65°	109	110
75°	33	37
85°	6	7
90°	0	



TEST NUMBER: P345330

CATALOG NUMBER: PR4FS12D010 PR4M12WD8FSMMS 1500Lm4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	349.9
2.5°	352.3
5°	361.0
7.5°	375.2
10°	389.4
12.5°	402.1
15°	411.5
17.5°	421.0
20°	428.9
22.5°	436.0
25°	439.2
27.5°	436.8
30°	429.7
32.5°	419.4
35°	408.4
37.5°	394.2
40°	377.6
42.5°	358.6
45°	336.5
47.5°	312.8
50°	285.9
52.5°	257.5
55°	227.5
57.5°	196.7
60°	165.9
62.5°	136.7
65°	109.0
67.5°	83.7
70°	63.2
72.5°	46.6
75°	33.2
77.5°	22.9
80°	15.8
82.5°	10.3
85°	5.5
87.5°	2.4
90°	0.0

(END OF REPORT)