

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: P345331

Luminaire Tested: **PR4FS12D010 PR4M12WD9FSMMS 1500Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345331
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 PR4M12WD9FSMMS 1500Lm3000K
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: 983.0 lumens
Efficiency: N/A
Efficacy: 70.7 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

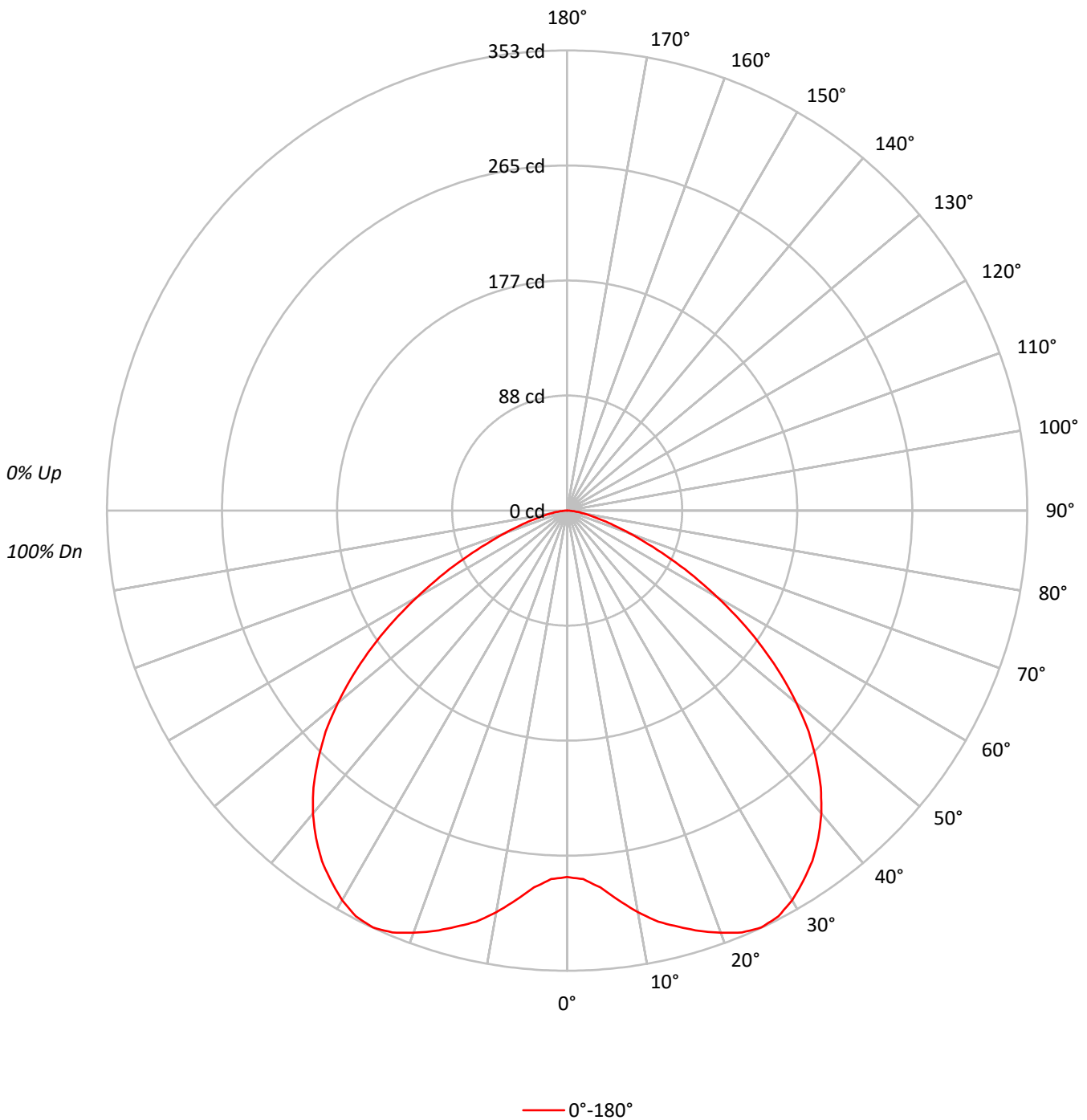
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	24588
5°	25463
10°	27783
15°	29937
20°	32076
25°	34049
30°	34866
35°	35035
40°	34632
45°	33436
50°	31257
55°	27877
60°	23319
65°	18131
70°	12992
75°	9023
80°	6397
85°	4416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	2.9
10°-20°	94.0	9.6
20°-30°	161.9	16.5
30°-40°	204.6	20.8
40°-50°	207.6	21.1
50°-60°	162.7	16.6
60°-70°	88.0	9.0
70°-80°	30.1	3.1
80°-90°	5.7	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°	284.4	28.9
0°-40°	489.0	49.7
0°-60°	859.3	87.4
0°-90°	983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	983.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	281	
5°	290	28
15°	331	94
25°	353	162
35°	328	205
45°	270	208
55°	183	163
65°	88	88
75°	27	30
85°	4	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	281.1
2.5°	283.0
5°	290.0
7.5°	301.4
10°	312.8
12.5°	323.0
15°	330.6
17.5°	338.2
20°	344.6
22.5°	350.3
25°	352.8
27.5°	350.9
30°	345.2
32.5°	337.0
35°	328.1
37.5°	316.6
40°	303.3
42.5°	288.1
45°	270.3
47.5°	251.3
50°	229.7
52.5°	206.9
55°	182.8
57.5°	158.0
60°	133.3
62.5°	109.8
65°	87.6
67.5°	67.3
70°	50.8
72.5°	37.4
75°	26.7
77.5°	18.4
80°	12.7
82.5°	8.2
85°	4.4
87.5°	1.9
90°	0.0

(END OF REPORT)