

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: P345327

Luminaire Tested: **PR4FS12D010 PR4M12WD9FSMMS 1000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345327
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 1000Lm4000K
Description: PR4 WIDE LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 773.9 lumens
Efficiency: N/A
Efficacy: 74.4 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

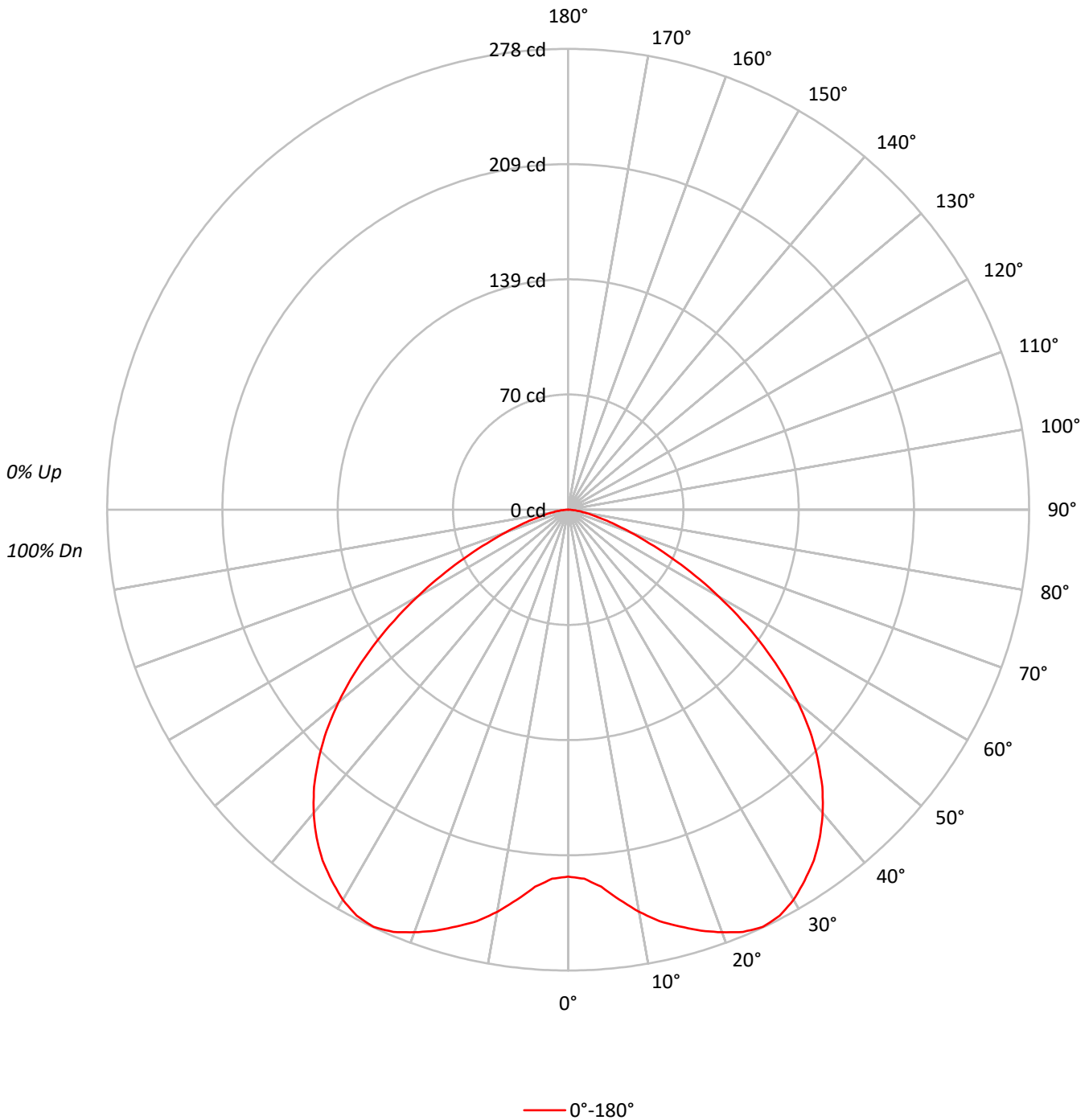
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19357
5°	20046
10°	21876
15°	23571
20°	25253
25°	26801
30°	27452
35°	27581
40°	27267
45°	26323
50°	24603
55°	21945
60°	18351
65°	14260
70°	10230
75°	7097
80°	5037
85°	3513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	2.9
10°-20°	74.0	9.6
20°-30°	127.4	16.5
30°-40°	161.1	20.8
40°-50°	163.4	21.1
50°-60°	128.1	16.6
60°-70°	69.3	8.9
70°-80°	23.7	3.1
80°-90°	4.5	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°	223.9	28.9
0°-40°	384.9	49.7
0°-60°	676.5	87.4
0°-90°	773.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	773.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	221	
5°	228	22
15°	260	74
25°	278	127
35°	258	161
45°	213	163
55°	144	128
65°	69	69
75°	21	24
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	221.3
2.5°	222.8
5°	228.3
7.5°	237.3
10°	246.3
12.5°	254.3
15°	260.3
17.5°	266.3
20°	271.3
22.5°	275.7
25°	277.7
27.5°	276.2
30°	271.8
32.5°	265.3
35°	258.3
37.5°	249.3
40°	238.8
42.5°	226.8
45°	212.8
47.5°	197.8
50°	180.8
52.5°	162.9
55°	143.9
57.5°	124.4
60°	104.9
62.5°	86.4
65°	68.9
67.5°	53.0
70°	40.0
72.5°	29.5
75°	21.0
77.5°	14.5
80°	10.0
82.5°	6.5
85°	3.5
87.5°	1.5
90°	0.0

(END OF REPORT)