

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: P345214

Luminaire Tested: **PR4FS12D010 PR4M12MD8FSMMS 1000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345214
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: PR4FS12D010 PR4M12MD8FSMMS 1000Lm3000K
Description: PR4 MEDIUM 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: 859.6 lumens
Efficiency: N/A
Efficacy: 82.7 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

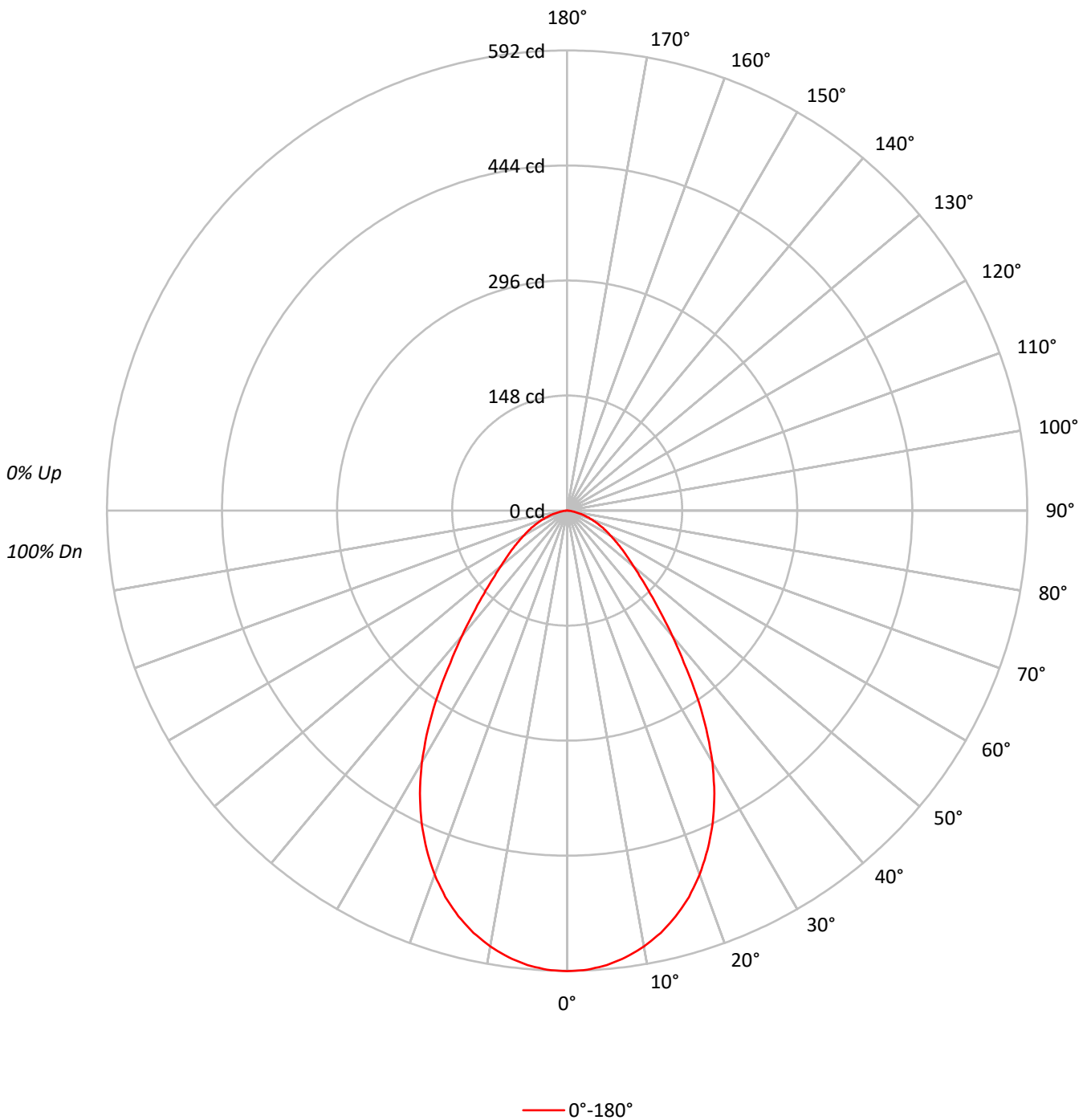
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	51826
5°	51532
10°	50573
15°	48918
20°	46402
25°	42793
30°	37734
35°	30998
40°	23967
45°	18728
50°	15159
55°	13039
60°	11319
65°	10017
70°	8644
75°	6861
80°	4836
85°	2810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	6.5
10°-20°	151.5	17.6
20°-30°	202.2	23.5
30°-40°	180.5	21.0
40°-50°	118.9	13.8
50°-60°	77.0	9.0
60°-70°	48.1	5.6
70°-80°	22.0	2.6
80°-90°	4.1	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°	409.1	47.6
0°-40°	589.6	68.6
0°-60°	785.5	91.4
0°-90°	859.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	859.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	592	
5°	587	55
15°	540	151
25°	443	202
35°	290	180
45°	151	119
55°	86	77
65°	48	48
75°	20	22
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	592.5
2.5°	591.4
5°	586.9
7.5°	579.6
10°	569.4
12.5°	556.5
15°	540.2
17.5°	521.1
20°	498.5
22.5°	472.1
25°	443.4
27.5°	410.2
30°	373.6
32.5°	333.1
35°	290.3
37.5°	247.0
40°	209.9
42.5°	178.4
45°	151.4
47.5°	128.9
50°	111.4
52.5°	97.3
55°	85.5
57.5°	74.3
60°	64.7
62.5°	56.3
65°	48.4
67.5°	40.5
70°	33.8
72.5°	27.0
75°	20.3
77.5°	14.6
80°	9.6
82.5°	5.6
85°	2.8
87.5°	1.7
90°	0.0

(END OF REPORT)