

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: P345215

Luminaire Tested: **PR4FS12D010 PR4M12MD8FSMMS 1000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345215
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 1000Lm3500K
Description: PR4 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 934.6 lumens
Efficiency: N/A
Efficacy: 92.5 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

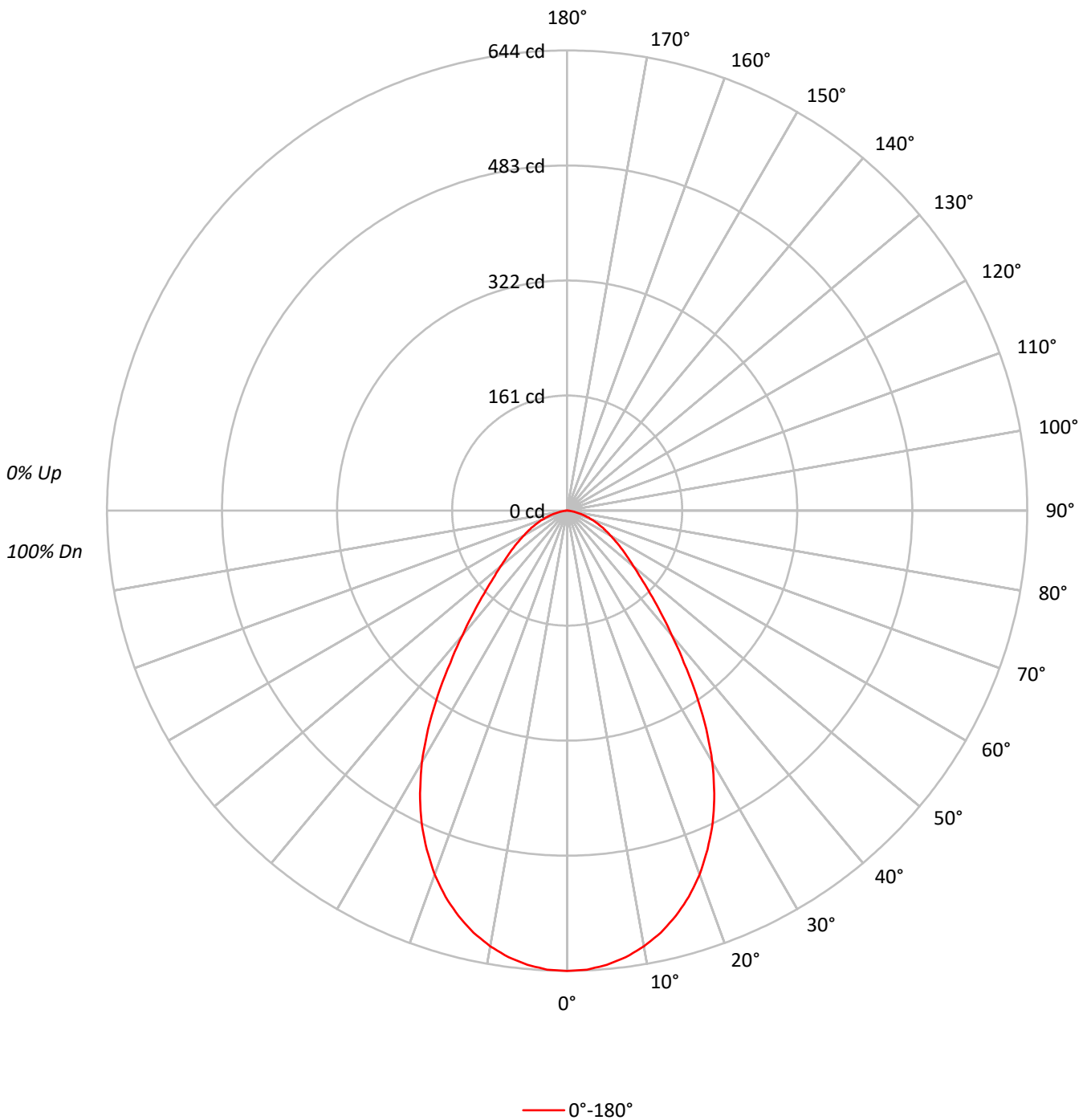
Input Watts (W): 10.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	56357
5°	56027
10°	54997
15°	53192
20°	50460
25°	46528
30°	41037
35°	33711
40°	26057
45°	20361
50°	16479
55°	14182
60°	12316
65°	10887
70°	9386
75°	7435
80°	5239
85°	3111



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	6.5
10°-20°	164.7	17.6
20°-30°	219.8	23.5
30°-40°	196.2	21.0
40°-50°	129.2	13.8
50°-60°	83.8	9.0
60°-70°	52.3	5.6
70°-80°	23.9	2.6
80°-90°	4.4	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°	444.8	47.6
0°-40°	641.1	68.6
0°-60°	854.1	91.4
0°-90°	934.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	934.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	644	
5°	638	60
15°	587	165
25°	482	220
35°	316	196
45°	165	129
55°	93	84
65°	53	52
75°	22	24
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	644.3
2.5°	643.0
5°	638.1
7.5°	630.2
10°	619.2
12.5°	605.1
15°	587.4
17.5°	566.5
20°	542.1
22.5°	513.3
25°	482.1
27.5°	446.0
30°	406.3
32.5°	362.2
35°	315.7
37.5°	268.6
40°	228.2
42.5°	193.9
45°	164.6
47.5°	140.1
50°	121.1
52.5°	105.8
55°	93.0
57.5°	80.8
60°	70.4
62.5°	61.2
65°	52.6
67.5°	44.1
70°	36.7
72.5°	29.4
75°	22.0
77.5°	15.9
80°	10.4
82.5°	6.1
85°	3.1
87.5°	1.8
90°	0.0

(END OF REPORT)