

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: P345222

Luminaire Tested: **PR4FS12D010 PR4M12MD8FSMMS 1500Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345222
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 1500Lm4000K
Description: PR4 MEDIUM 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: 1206.2 lumens
Efficiency: N/A
Efficacy: 86.8 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

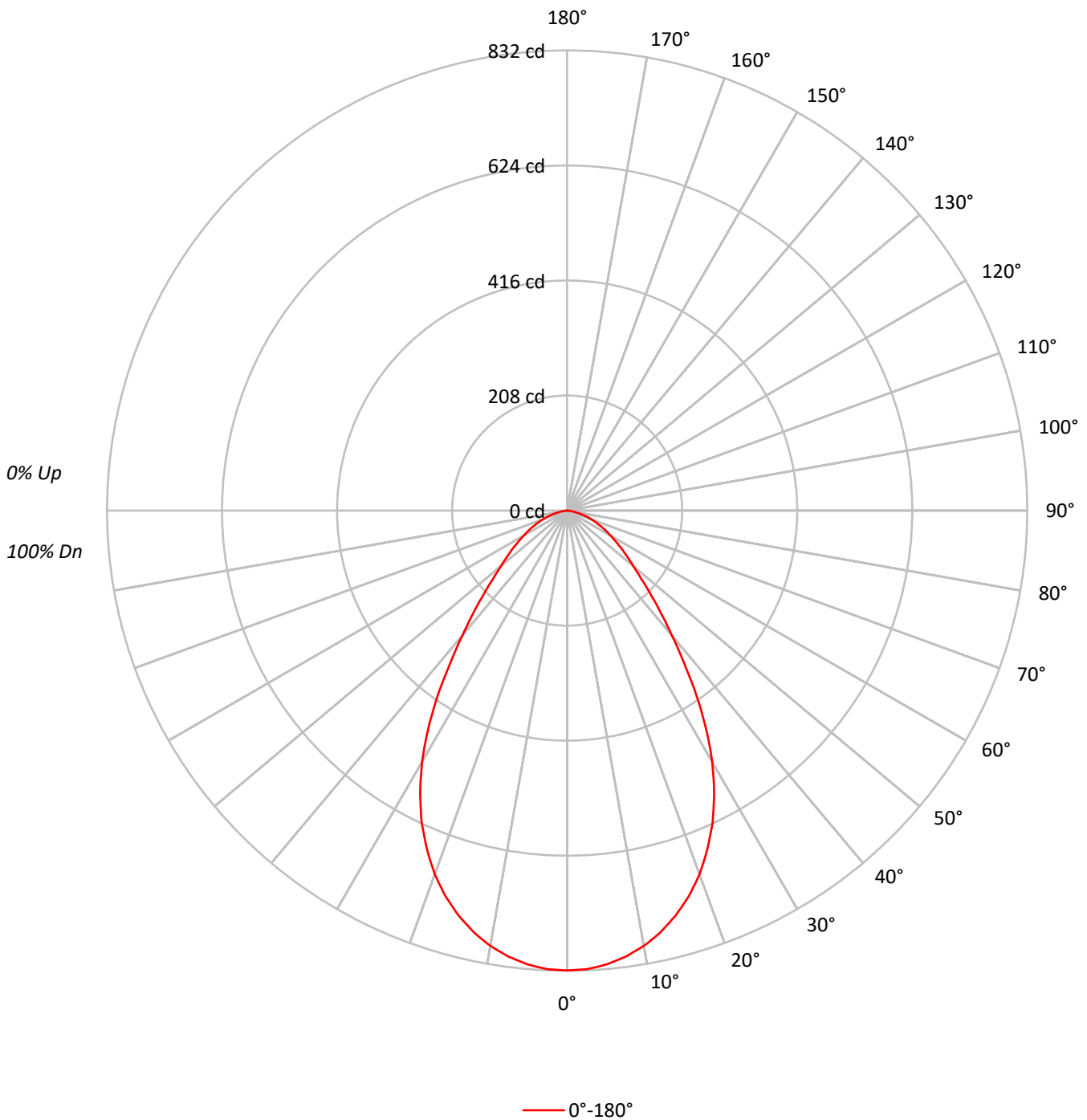
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63					63			
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	51	45	42	40					40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72731
5°	72315
10°	70975
15°	68641
20°	65121
25°	60050
30°	52955
35°	43502
40°	33627
45°	26274
50°	21269
55°	18300
60°	15884
65°	14053
70°	12122
75°	9598
80°	6750
85°	3914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	6.5
10°-20°	212.5	17.6
20°-30°	283.7	23.5
30°-40°	253.3	21.0
40°-50°	166.8	13.8
50°-60°	108.1	9.0
60°-70°	67.4	5.6
70°-80°	30.9	2.6
80°-90°	5.7	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°	574.1	47.6
0°-40°	827.4	68.6
0°-60°	1102.2	91.4
0°-90°	1206.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1206.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	832	
5°	824	78
15°	758	213
25°	622	284
35°	407	253
45°	212	167
55°	120	108
65°	68	67
75°	28	31
85°	4	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	831.5
2.5°	829.9
5°	823.6
7.5°	813.3
10°	799.1
12.5°	780.9
15°	758.0
17.5°	731.2
20°	699.6
22.5°	662.5
25°	622.2
27.5°	575.6
30°	524.3
32.5°	467.5
35°	407.4
37.5°	346.6
40°	294.5
42.5°	250.3
45°	212.4
47.5°	180.8
50°	156.3
52.5°	136.6
55°	120.0
57.5°	104.2
60°	90.8
62.5°	79.0
65°	67.9
67.5°	56.9
70°	47.4
72.5°	37.9
75°	28.4
77.5°	20.5
80°	13.4
82.5°	7.9
85°	3.9
87.5°	2.4
90°	0.0

(END OF REPORT)