

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: P345186

Luminaire Tested: **PR4FS12D010 PR4M12MD8FSMW 1500Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12MD8FSMW 1500Lm4000K
Description: PR4 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1286.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.02
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

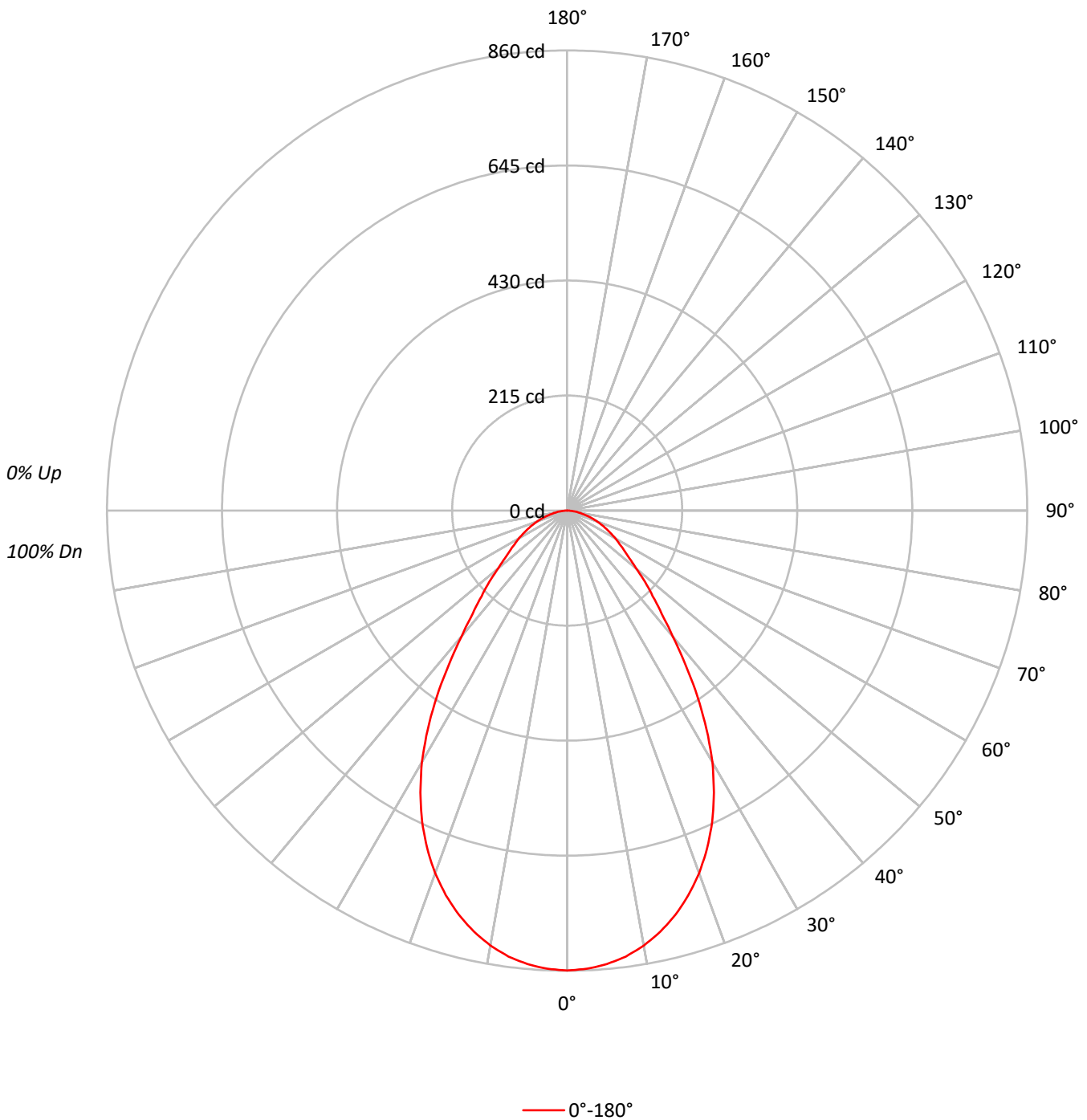
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	73	65	59	81	72	64	59	70	63	59	68	62	58	66	61	57	56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46
8	69	57	50	45	67	56	49	44	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	51	45	41	50	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	75180
5°	74703
10°	73329
15°	70823
20°	67141
25°	61912
30°	54813
35°	45382
40°	34997
45°	27944
50°	22902
55°	19886
60°	18246
65°	16682
70°	15345
75°	13349
80°	11938
85°	9534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	6.3
10°-20°	219.2	17.0
20°-30°	292.8	22.8
30°-40°	263.8	20.5
40°-50°	177.1	13.8
50°-60°	118.3	9.2
60°-70°	80.1	6.2
70°-80°	42.7	3.3
80°-90°	11.6	0.9
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°	592.4	46.1
0°-40°	856.2	66.6
0°-60°	1151.6	89.6
0°-90°	1286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1286.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	860	
5°	851	80
15°	782	219
25°	642	293
35°	425	264
45°	226	177
55°	130	118
65°	81	80
75°	40	43
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	859.5
2.5°	857.2
5°	850.8
7.5°	840.6
10°	825.6
12.5°	805.8
15°	782.1
17.5°	753.7
20°	721.3
22.5°	683.4
25°	641.5
27.5°	594.1
30°	542.7
32.5°	485.1
35°	425.0
37.5°	363.4
40°	306.5
42.5°	261.5
45°	225.9
47.5°	197.5
50°	168.3
52.5°	146.9
55°	130.4
57.5°	116.1
60°	104.3
62.5°	91.6
65°	80.6
67.5°	69.5
70°	60.0
72.5°	49.8
75°	39.5
77.5°	30.8
80°	23.7
82.5°	16.6
85°	9.5
87.5°	4.7
90°	0.0

(END OF REPORT)