

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: P345295

Luminaire Tested: **PR4FS12D010 PR4M12WD9FSMW 1500Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12WD9FSMW 1500Lm3000K
Description: PR4 WIDE LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1053.4 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.61 / 1.61 / 1.58
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

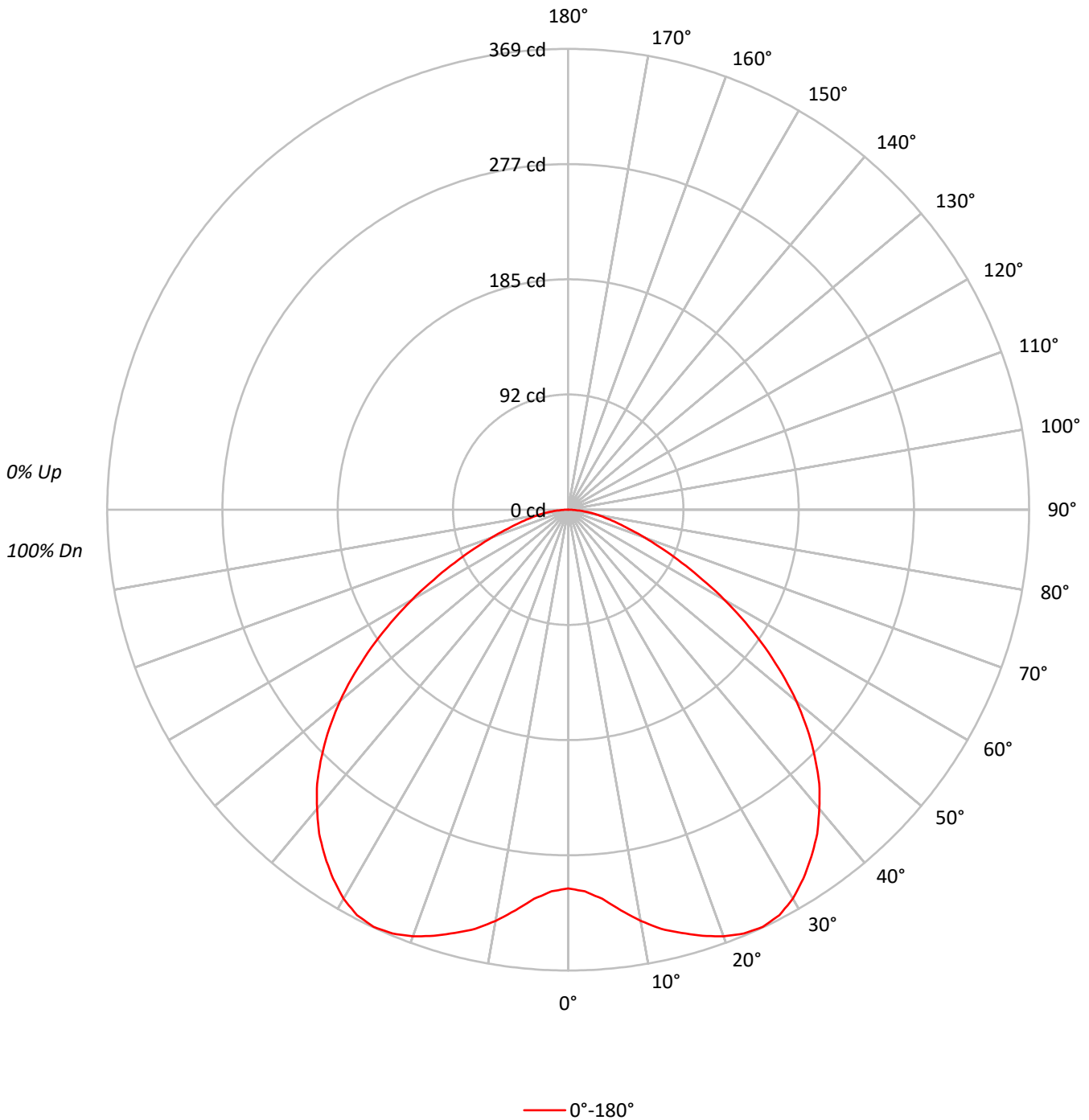
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26521
5°	27456
10°	29692
15°	31767
20°	33836
25°	35574
30°	36330
35°	36241
40°	35705
45°	34525
50°	32455
55°	29310
60°	25296
65°	20738
70°	16547
75°	13518
80°	12140
85°	10136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	2.9
10°-20°	99.7	9.5
20°-30°	169.3	16.1
30°-40°	211.9	20.1
40°-50°	214.4	20.4
50°-60°	171.3	16.3
60°-70°	100.6	9.5
70°-80°	43.8	4.2
80°-90°	11.7	1.1
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°	299.6	28.4
0°-40°	511.5	48.6
0°-60°	897.3	85.2
0°-90°	1053.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1053.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	303	
5°	313	31
15°	351	100
25°	369	169
35°	339	212
45°	279	214
55°	192	171
65°	100	101
75°	40	44
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	303.2
2.5°	305.8
5°	312.7
7.5°	323.5
10°	334.3
12.5°	343.8
15°	350.8
17.5°	357.8
20°	363.5
22.5°	367.3
25°	368.6
27.5°	366.0
30°	359.7
32.5°	350.2
35°	339.4
37.5°	327.3
40°	312.7
42.5°	297.5
45°	279.1
47.5°	259.5
50°	238.5
52.5°	215.7
55°	192.2
57.5°	168.1
60°	144.6
62.5°	121.2
65°	100.2
67.5°	81.2
70°	64.7
72.5°	50.7
75°	40.0
77.5°	31.1
80°	24.1
82.5°	17.1
85°	10.1
87.5°	3.8
90°	0.0

(END OF REPORT)