

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: P345206

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSMW 3000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345206
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: PR4FS24D010 PR4M24MD9FSMW 3000Lm3500K
Description: PR4 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2341.3 lumens
Efficiency: N/A
Efficacy: 89.7 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

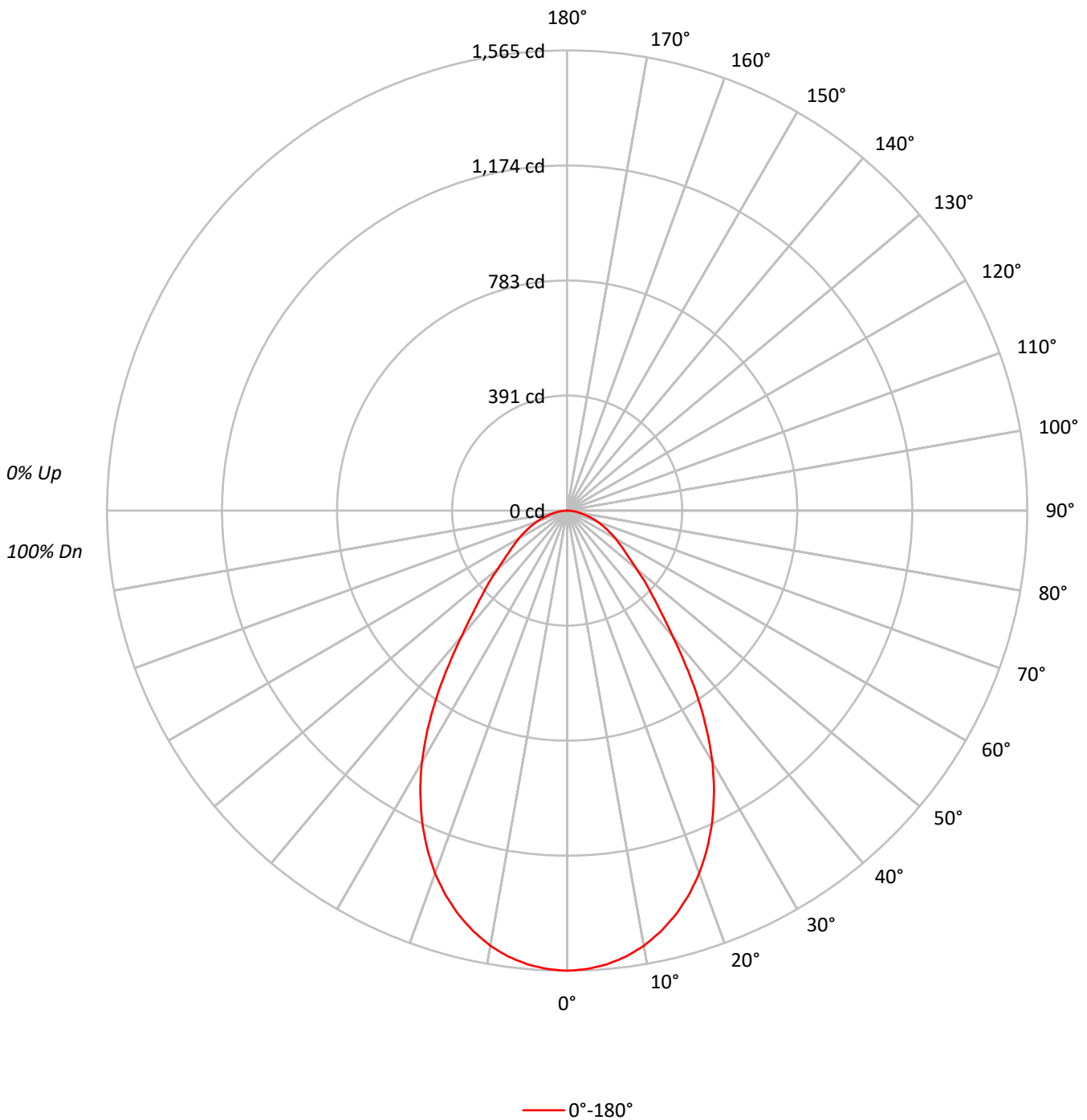
Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	136872
5°	136008
10°	133495
15°	128941
20°	122227
25°	112716
30°	99799
35°	82627
40°	63726
45°	50878
50°	41694
55°	36188
60°	33221
65°	30363
70°	27953
75°	24299
80°	21710
85°	17362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	6.3
10°-20°	399.1	17.0
20°-30°	533.0	22.8
30°-40°	480.2	20.5
40°-50°	322.5	13.8
50°-60°	215.3	9.2
60°-70°	145.8	6.2
70°-80°	77.7	3.3
80°-90°	21.1	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°	1078.6	46.1
0°-40°	1558.8	66.6
0°-60°	2096.6	89.6
0°-90°	2341.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2341.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1565	
5°	1549	146
15°	1424	399
25°	1168	533
35°	774	480
45°	411	323
55°	237	215
65°	147	146
75°	72	78
85°	17	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1564.8
2.5°	1560.5
5°	1549.0
7.5°	1530.3
10°	1503.0
12.5°	1467.0
15°	1423.9
17.5°	1372.1
20°	1313.1
22.5°	1244.1
25°	1167.9
27.5°	1081.6
30°	988.1
32.5°	883.1
35°	773.8
37.5°	661.6
40°	558.1
42.5°	476.1
45°	411.3
47.5°	359.6
50°	306.4
52.5°	267.5
55°	237.3
57.5°	211.4
60°	189.9
62.5°	166.8
65°	146.7
67.5°	126.6
70°	109.3
72.5°	90.6
75°	71.9
77.5°	56.1
80°	43.1
82.5°	30.2
85°	17.3
87.5°	8.6
90°	0.0

(END OF REPORT)