

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: P345212

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSMW 4000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345212
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 4000Lm3500K
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: 3359.3 lumens
Efficiency: N/A
Efficacy: 86.1 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

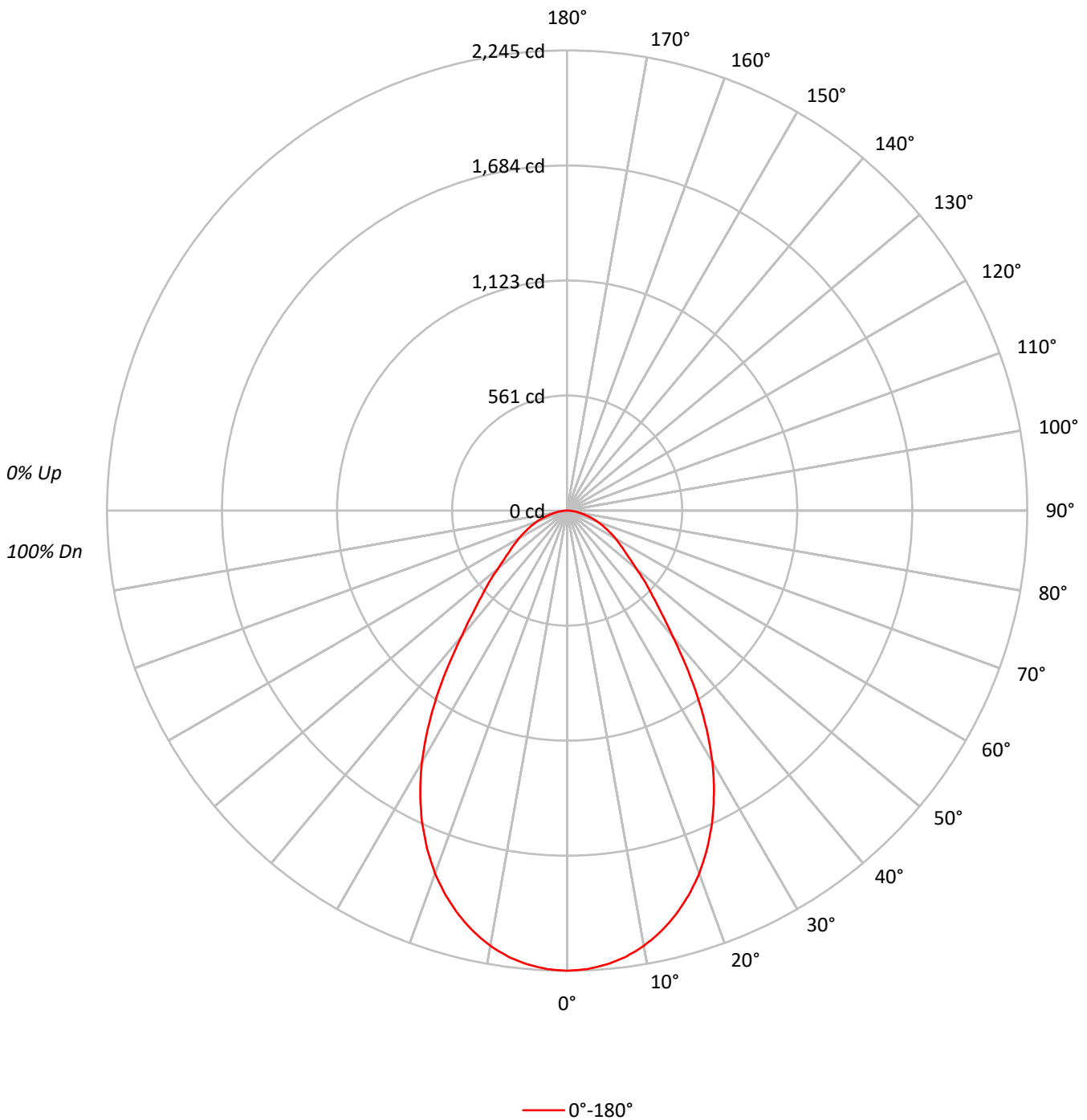
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	196386
5°	195143
10°	191538
15°	185004
20°	175378
25°	161725
30°	143189
35°	118548
40°	91427
45°	73008
50°	59820
55°	51926
60°	47653
65°	43567
70°	40101
75°	34877
80°	31180
85°	24889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.1	6.3
10°-20°	572.7	17.0
20°-30°	764.8	22.8
30°-40°	689.0	20.5
40°-50°	462.8	13.8
50°-60°	308.9	9.2
60°-70°	209.2	6.2
70°-80°	111.5	3.3
80°-90°	30.3	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°	1547.5	46.1
0°-40°	2236.5	66.6
0°-60°	3008.2	89.5
0°-90°	3359.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3359.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2245	
5°	2222	210
15°	2043	573
25°	1676	765
35°	1110	689
45°	590	463
55°	340	309
65°	210	209
75°	103	112
85°	25	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2245.2
2.5°	2239.0
5°	2222.5
7.5°	2195.7
10°	2156.5
12.5°	2104.9
15°	2043.0
17.5°	1968.7
20°	1884.1
22.5°	1785.0
25°	1675.7
27.5°	1551.8
30°	1417.7
32.5°	1267.1
35°	1110.2
37.5°	949.3
40°	800.7
42.5°	683.1
45°	590.2
47.5°	515.9
50°	439.6
52.5°	383.8
55°	340.5
57.5°	303.4
60°	272.4
62.5°	239.4
65°	210.5
67.5°	181.6
70°	156.8
72.5°	130.0
75°	103.2
77.5°	80.5
80°	61.9
82.5°	43.3
85°	24.8
87.5°	12.4
90°	0.0

(END OF REPORT)