

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: P345242

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSMMS 3000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345242
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: PR4FS24D010 PR4M24MD9FSMMS 3000Lm3500K
Description: PR4 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2196.1 lumens
Efficiency: N/A
Efficacy: 84.1 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

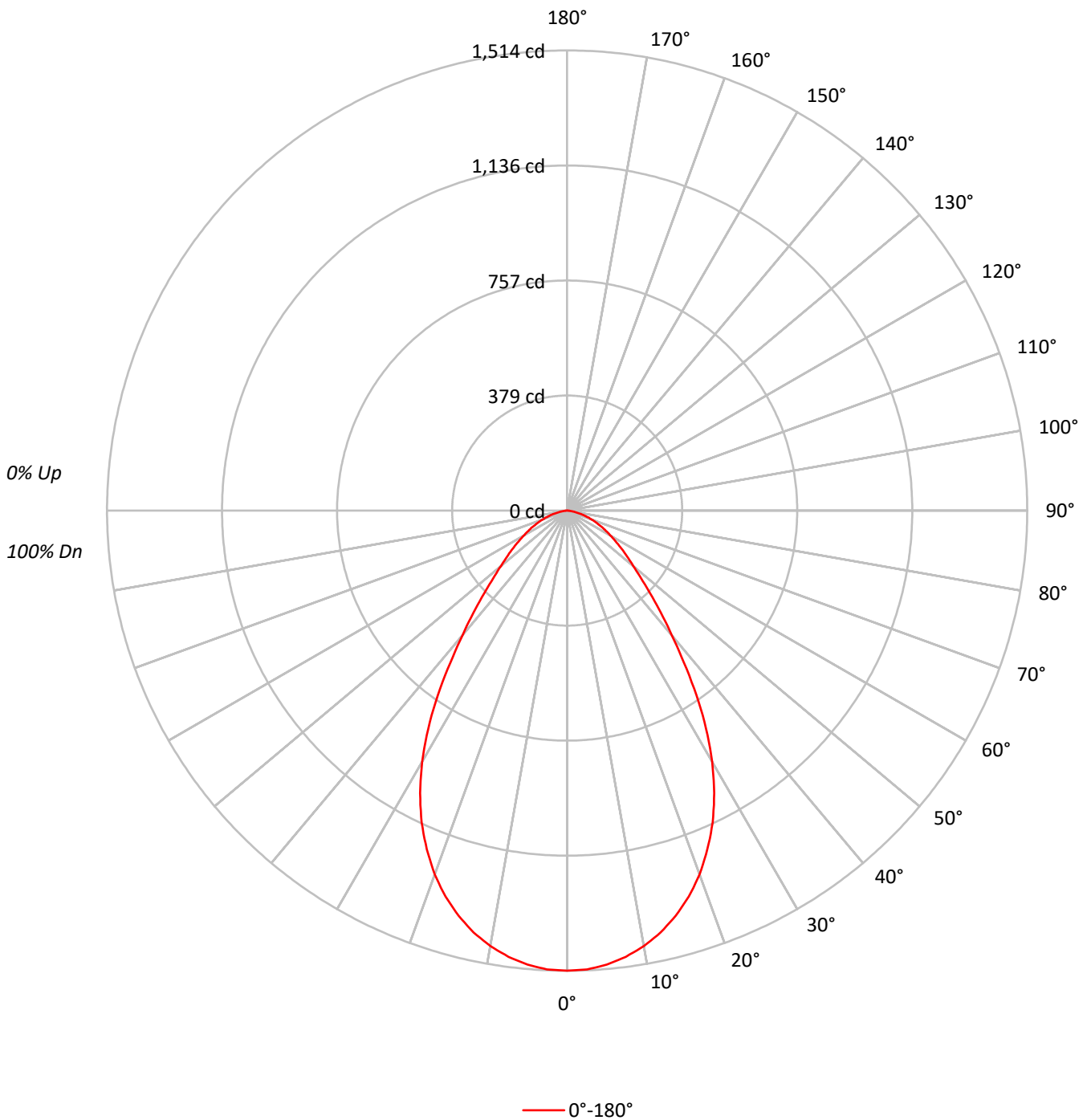
Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	132411
5°	131653
10°	129214
15°	124975
20°	118560
25°	109329
30°	96405
35°	79210
40°	61225
45°	47835
50°	38728
55°	33321
60°	28917
65°	25582
70°	22071
75°	17506
80°	12291
85°	7226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	6.5
10°-20°	387.0	17.6
20°-30°	516.5	23.5
30°-40°	461.1	21.0
40°-50°	303.6	13.8
50°-60°	196.8	9.0
60°-70°	122.8	5.6
70°-80°	56.2	2.6
80°-90°	10.4	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°	1045.2	47.6
0°-40°	1506.3	68.6
0°-60°	2006.7	91.4
0°-90°	2196.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2196.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1514	
5°	1499	142
15°	1380	387
25°	1133	517
35°	742	461
45°	387	304
55°	218	197
65°	124	123
75°	52	56
85°	7	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1513.8
2.5°	1510.9
5°	1499.4
7.5°	1480.7
10°	1454.8
12.5°	1421.7
15°	1380.1
17.5°	1331.2
20°	1273.7
22.5°	1206.1
25°	1132.8
27.5°	1048.0
30°	954.5
32.5°	851.0
35°	741.8
37.5°	631.1
40°	536.2
42.5°	455.7
45°	386.7
47.5°	329.2
50°	284.6
52.5°	248.7
55°	218.5
57.5°	189.8
60°	165.3
62.5°	143.8
65°	123.6
67.5°	103.5
70°	86.3
72.5°	69.0
75°	51.8
77.5°	37.4
80°	24.4
82.5°	14.4
85°	7.2
87.5°	4.3
90°	0.0

(END OF REPORT)