

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: P345248

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSMMS 4000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345248
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 4000Lm3500K
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: 3150.9 lumens
Efficiency: N/A
Efficacy: 80.8 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

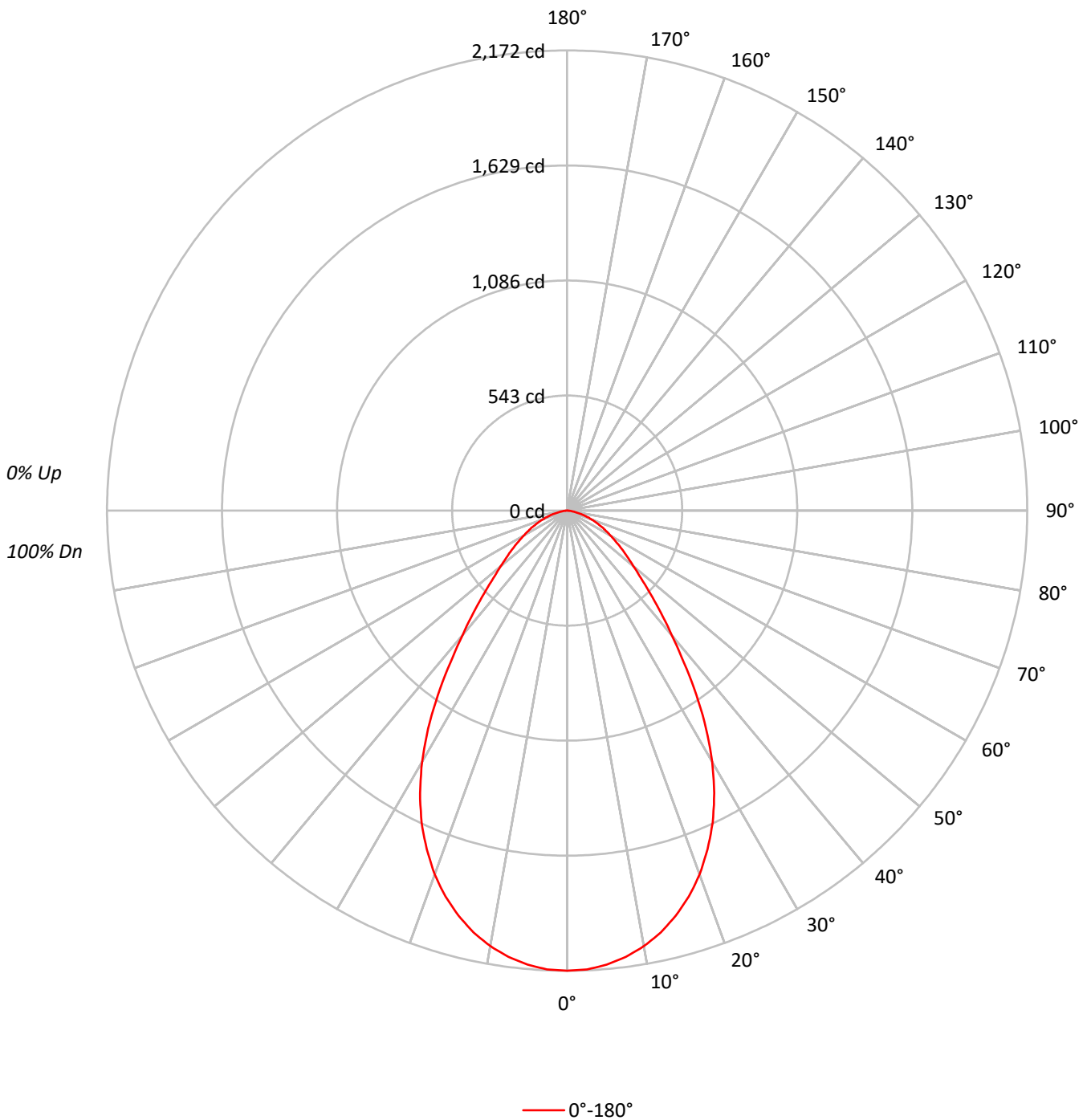
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	189975
5°	188892
10°	185391
15°	179308
20°	170109
25°	156861
30°	138331
35°	113646
40°	87841
45°	68629
50°	55574
55°	47808
60°	41496
65°	36717
70°	31661
75°	25110
80°	17680
85°	10337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	6.5
10°-20°	555.2	17.6
20°-30°	741.1	23.5
30°-40°	661.6	21.0
40°-50°	435.6	13.8
50°-60°	282.4	9.0
60°-70°	176.1	5.6
70°-80°	80.7	2.6
80°-90°	14.9	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°	1499.6	47.6
0°-40°	2161.2	68.6
0°-60°	2879.2	91.4
0°-90°	3150.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3150.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2172	
5°	2151	203
15°	1980	555
25°	1625	741
35°	1064	662
45°	555	436
55°	314	282
65°	177	176
75°	74	81
85°	10	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2171.9
2.5°	2167.8
5°	2151.3
7.5°	2124.5
10°	2087.3
12.5°	2039.9
15°	1980.1
17.5°	1910.0
20°	1827.5
22.5°	1730.5
25°	1625.3
27.5°	1503.6
30°	1369.6
32.5°	1221.1
35°	1064.3
37.5°	905.5
40°	769.3
42.5°	653.8
45°	554.8
47.5°	472.3
50°	408.4
52.5°	356.8
55°	313.5
57.5°	272.3
60°	237.2
62.5°	206.3
65°	177.4
67.5°	148.5
70°	123.8
72.5°	99.0
75°	74.3
77.5°	53.6
80°	35.1
82.5°	20.6
85°	10.3
87.5°	6.2
90°	0.0

(END OF REPORT)