

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: P345351

Luminaire Tested: **PR4FS24D010 PR4M24WD9FSMMS 3000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24WD9FSMMS 3000Lm4000K
Description: PR4 WIDE LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2122.9 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.65 / 1.65 / 1.6
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

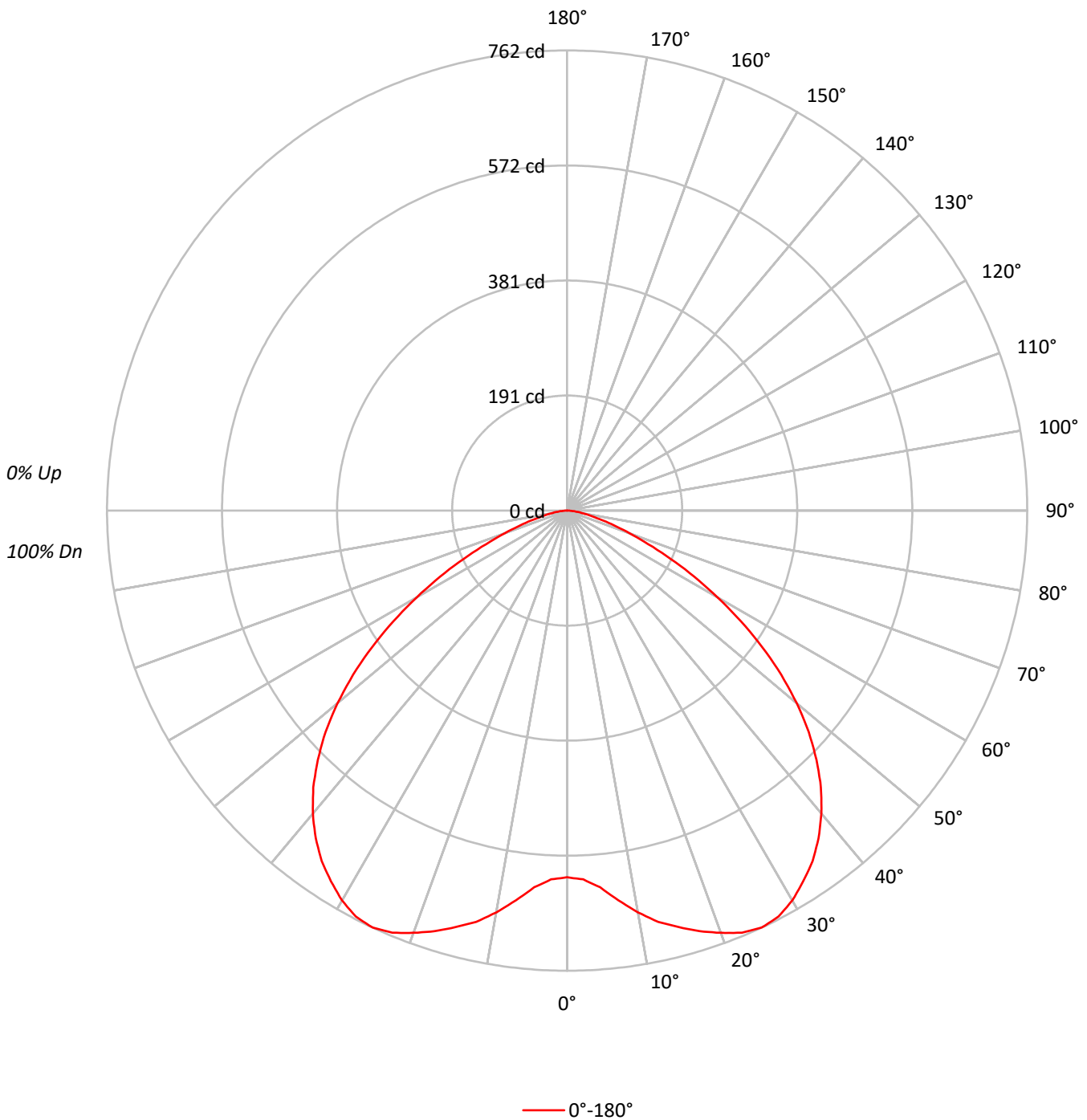
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53103
5°	54991
10°	60006
15°	64656
20°	69263
25°	73542
30°	75296
35°	75654
40°	74801
45°	72216
50°	67508
55°	60191
60°	50347
65°	39138
70°	28029
75°	19466
80°	13802
85°	9635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	2.9
10°-20°	203.1	9.6
20°-30°	349.6	16.5
30°-40°	441.8	20.8
40°-50°	448.3	21.1
50°-60°	351.4	16.6
60°-70°	190.0	8.9
70°-80°	64.9	3.1
80°-90°	12.3	0.6
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°	614.1	28.9
0°-40°	1056.0	49.7
0°-60°	1855.7	87.4
0°-90°	2122.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2122.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	607	
5°	626	61
15°	714	203
25°	762	350
35°	708	442
45°	584	448
55°	395	351
65°	189	190
75°	58	65
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	607.1
2.5°	611.2
5°	626.3
7.5°	650.9
10°	675.6
12.5°	697.5
15°	714.0
17.5°	730.4
20°	744.1
22.5°	756.5
25°	762.0
27.5°	757.8
30°	745.5
32.5°	727.7
35°	708.5
37.5°	683.8
40°	655.1
42.5°	622.2
45°	583.8
47.5°	542.7
50°	496.1
52.5°	446.8
55°	394.7
57.5°	341.2
60°	287.8
62.5°	237.1
65°	189.1
67.5°	145.3
70°	109.6
72.5°	80.9
75°	57.6
77.5°	39.7
80°	27.4
82.5°	17.8
85°	9.6
87.5°	4.1
90°	0.0

(END OF REPORT)