

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: P345239

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSMMS 3000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345239
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 PR4M24MD8FSMMS 3000Lm3500K
Description: PR4 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2567.3 lumens
Efficiency: N/A
Efficacy: 98.4 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

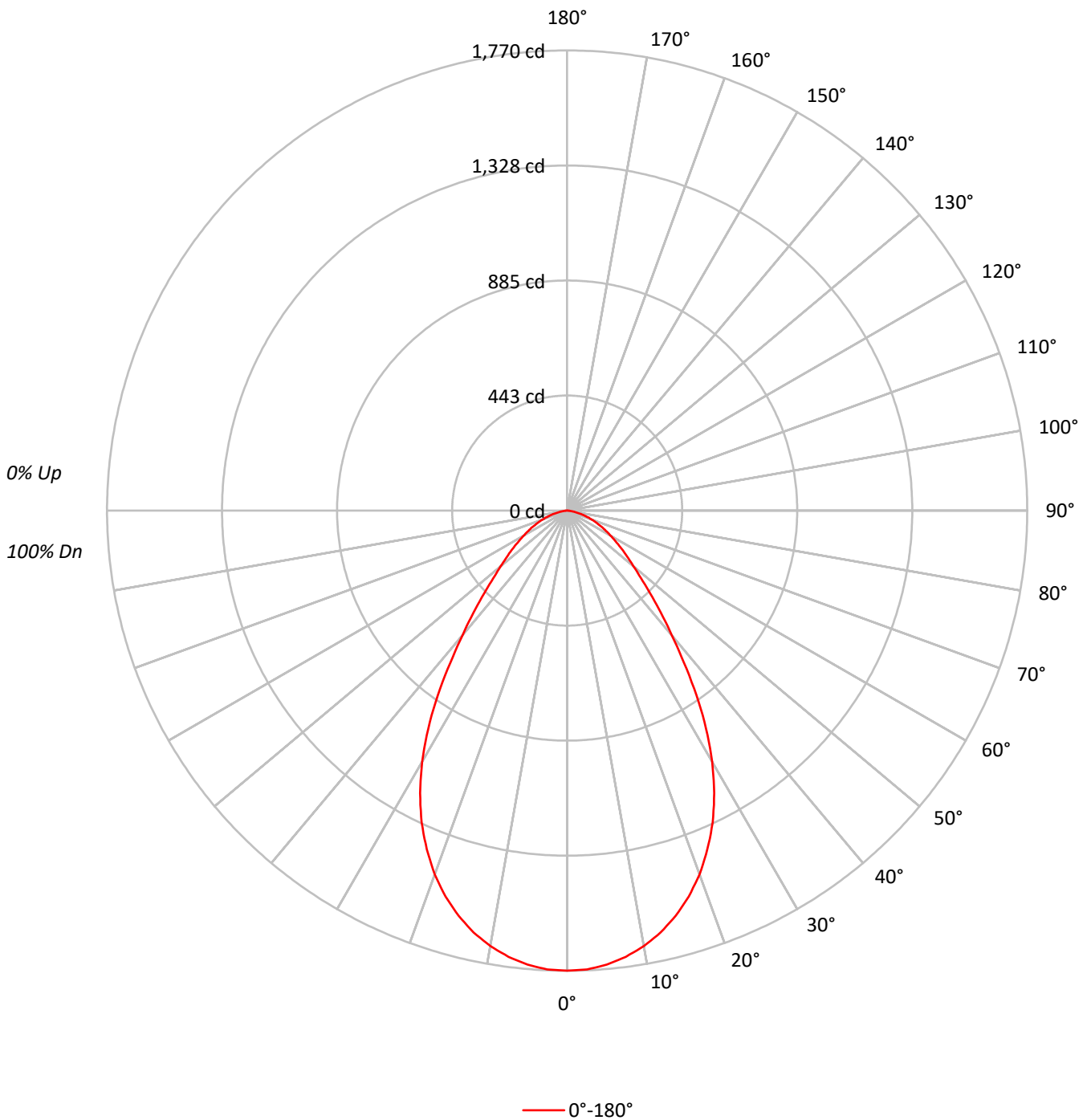
Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	154795
5°	153911
10°	151063
15°	146101
20°	138601
25°	127811
30°	112707
35°	92600
40°	71581
45°	55925
50°	45287
55°	38963
60°	33816
65°	29907
70°	25779
75°	20446
80°	14406
85°	8430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	6.5
10°-20°	452.4	17.6
20°-30°	603.9	23.5
30°-40°	539.1	21.0
40°-50°	355.0	13.8
50°-60°	230.1	9.0
60°-70°	143.5	5.6
70°-80°	65.7	2.6
80°-90°	12.1	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°	1221.9	47.6
0°-40°	1761.0	68.6
0°-60°	2346.0	91.4
0°-90°	2567.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2567.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1770	
5°	1753	166
15°	1613	452
25°	1324	604
35°	867	539
45°	452	355
55°	256	230
65°	144	144
75°	60	66
85°	8	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1769.7
2.5°	1766.3
5°	1752.9
7.5°	1731.0
10°	1700.8
12.5°	1662.1
15°	1613.4
17.5°	1556.2
20°	1489.0
22.5°	1410.0
25°	1324.3
27.5°	1225.2
30°	1115.9
32.5°	994.9
35°	867.2
37.5°	737.8
40°	626.9
42.5°	532.7
45°	452.1
47.5°	384.9
50°	332.8
52.5°	290.7
55°	255.5
57.5°	221.8
60°	193.3
62.5°	168.1
65°	144.5
67.5°	121.0
70°	100.8
72.5°	80.7
75°	60.5
77.5°	43.7
80°	28.6
82.5°	16.8
85°	8.4
87.5°	5.0
90°	0.0

(END OF REPORT)