

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: P345234

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSMMS 2000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345234
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 2000Lm4000K
Description: PR4 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1954.9 lumens
Efficiency: N/A
Efficacy: 88.9 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

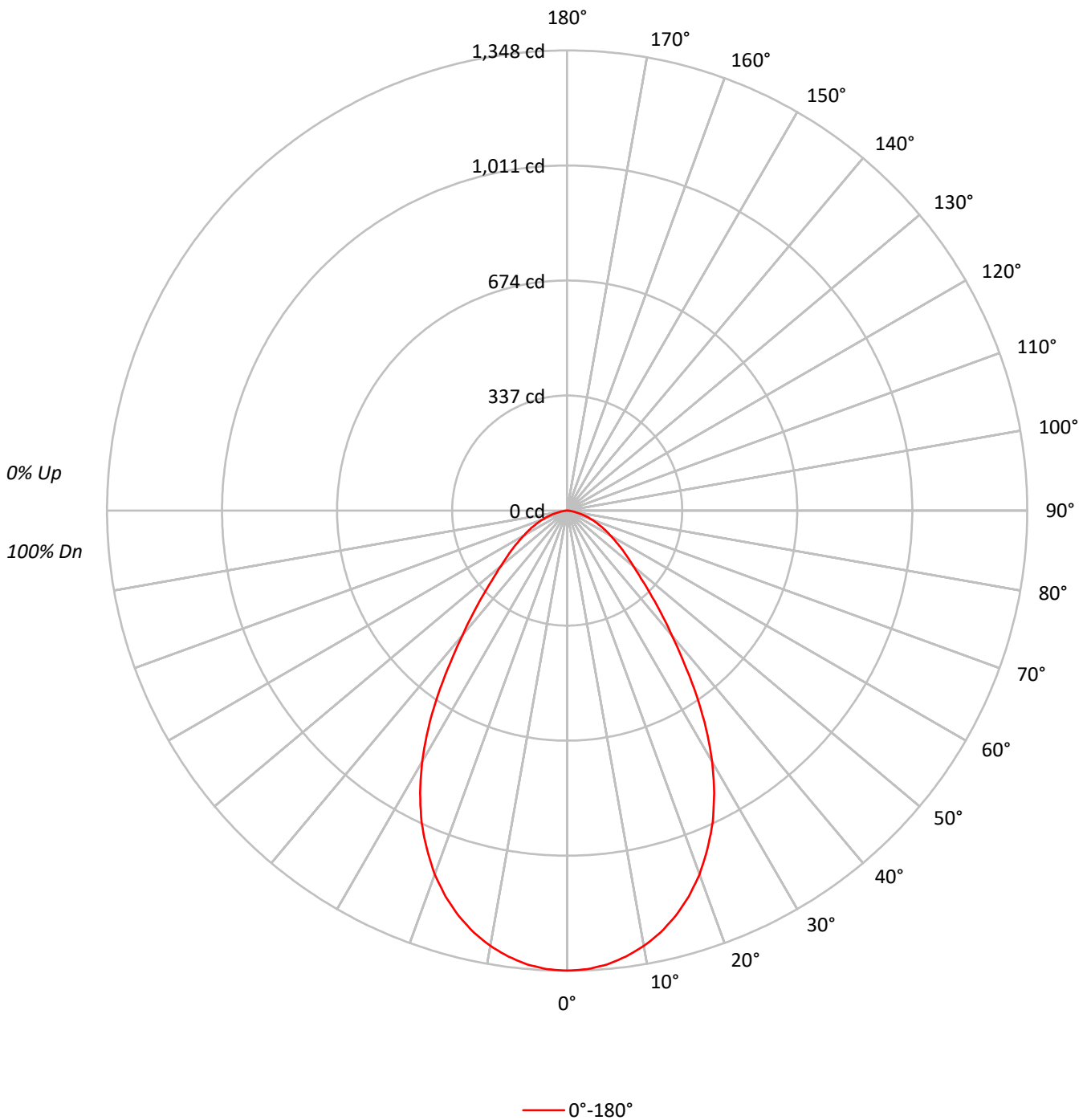
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	117865
5°	117191
10°	115020
15°	111247
20°	105538
25°	97323
30°	85821
35°	70507
40°	54500
45°	42578
50°	34482
55°	29661
60°	25751
65°	22787
70°	19641
75°	15580
80°	10981
85°	6423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	6.5
10°-20°	344.5	17.6
20°-30°	459.8	23.5
30°-40°	410.5	21.0
40°-50°	270.3	13.8
50°-60°	175.2	9.0
60°-70°	109.3	5.6
70°-80°	50.1	2.6
80°-90°	9.2	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°	930.4	47.6
0°-40°	1340.9	68.6
0°-60°	1786.3	91.4
0°-90°	1954.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1954.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1348	
5°	1335	126
15°	1228	344
25°	1008	460
35°	660	410
45°	344	270
55°	194	175
65°	110	109
75°	46	50
85°	6	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1347.5
2.5°	1344.9
5°	1334.7
7.5°	1318.0
10°	1295.0
12.5°	1265.6
15°	1228.5
17.5°	1185.0
20°	1133.8
22.5°	1073.6
25°	1008.4
27.5°	932.9
30°	849.7
32.5°	757.6
35°	660.3
37.5°	561.8
40°	477.3
42.5°	405.7
45°	344.2
47.5°	293.0
50°	253.4
52.5°	221.4
55°	194.5
57.5°	168.9
60°	147.2
62.5°	128.0
65°	110.1
67.5°	92.1
70°	76.8
72.5°	61.4
75°	46.1
77.5°	33.3
80°	21.8
82.5°	12.8
85°	6.4
87.5°	3.8
90°	0.0

(END OF REPORT)