

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: P345205

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSMW 3000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24MD9FSMW 3000Lm3000K
Description: PR4 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2138.7 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.02
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

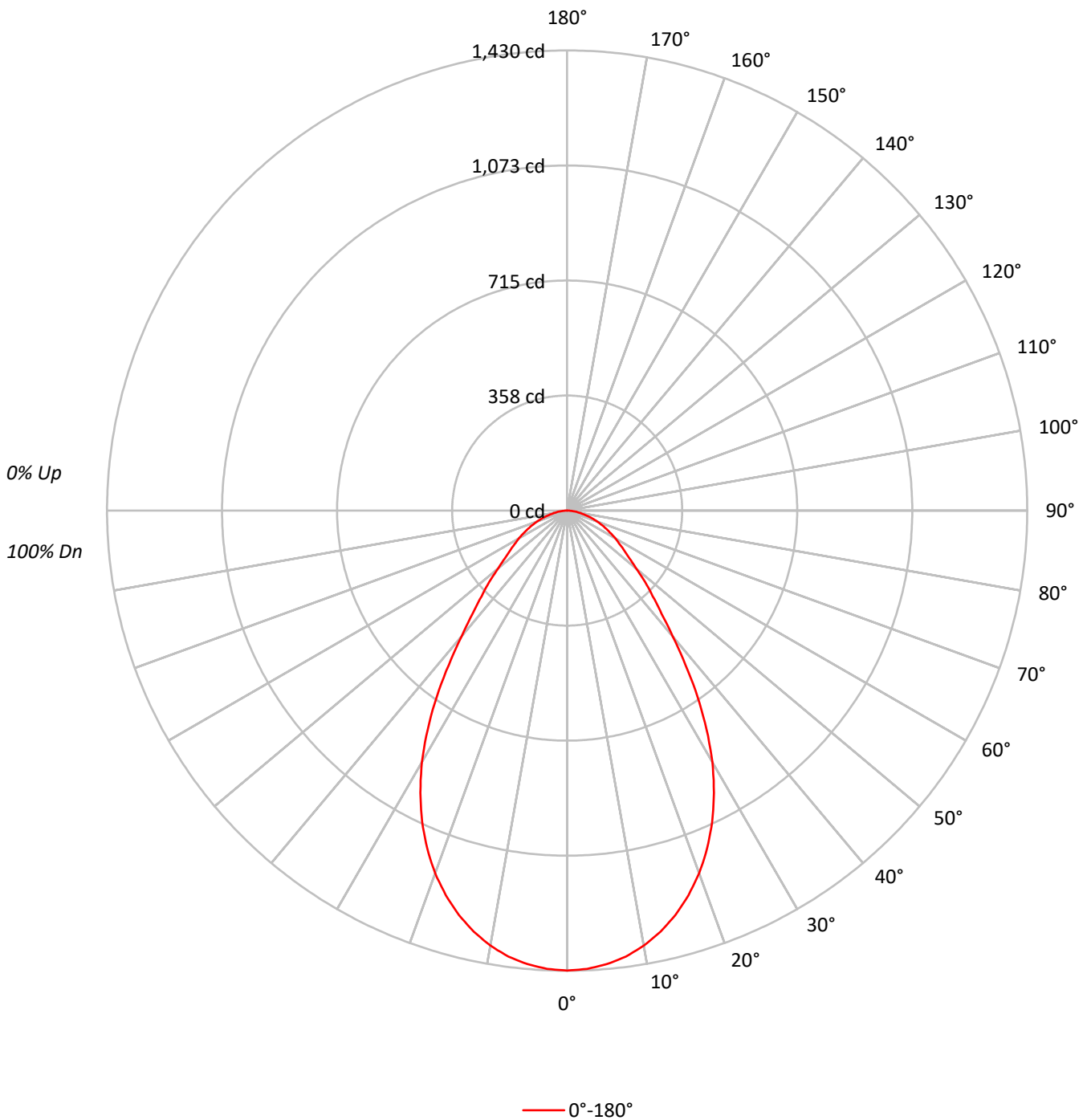
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96		97	95	93		94	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		72	67	64	62
5	83	73	65	59	81	72	64	59	70	63	59		68	62	58		66	61	57	56
6	78	67	59	54	76	66	59	53	64	58	53		63	57	53		61	56	52	50
7	73	62	54	49	72	61	54	49	59	53	48		58	52	48		57	52	48	46
8	69	57	50	45	67	56	49	44	55	49	44		54	48	44		53	48	44	42
9	65	53	46	41	64	53	46	41	51	45	41		50	45	41		50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38		47	42	38		46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	125038
5°	124242
10°	121948
15°	117785
20°	111653
25°	102959
30°	91164
35°	75472
40°	58211
45°	46487
50°	38075
55°	33062
60°	30334
65°	27734
70°	25549
75°	22204
80°	19846
85°	15857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	6.3
10°-20°	364.6	17.0
20°-30°	486.9	22.8
30°-40°	438.7	20.5
40°-50°	294.6	13.8
50°-60°	196.7	9.2
60°-70°	133.2	6.2
70°-80°	71.0	3.3
80°-90°	19.3	0.9
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°	985.3	46.1
0°-40°	1423.9	66.6
0°-60°	1915.2	89.5
0°-90°	2138.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2138.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1430	
5°	1415	134
15°	1301	365
25°	1067	487
35°	707	439
45°	376	295
55°	217	197
65°	134	133
75°	66	71
85°	16	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1429.5
2.5°	1425.5
5°	1415.0
7.5°	1397.9
10°	1373.0
12.5°	1340.1
15°	1300.7
17.5°	1253.4
20°	1199.5
22.5°	1136.5
25°	1066.8
27.5°	988.0
30°	902.6
32.5°	806.7
35°	706.8
37.5°	604.4
40°	509.8
42.5°	434.9
45°	375.8
47.5°	328.5
50°	279.8
52.5°	244.4
55°	216.8
57.5°	193.1
60°	173.4
62.5°	152.4
65°	134.0
67.5°	115.6
70°	99.9
72.5°	82.8
75°	65.7
77.5°	51.2
80°	39.4
82.5°	27.6
85°	15.8
87.5°	7.9
90°	0.0

(END OF REPORT)