

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: P345313

Luminaire Tested: **PR4FS24D010 PR4M24WD9FSMW 3000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24WD9FSMW 3000Lm3000K
Description: PR4 WIDE 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: 2180.7 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.61 / 1.61 / 1.58
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

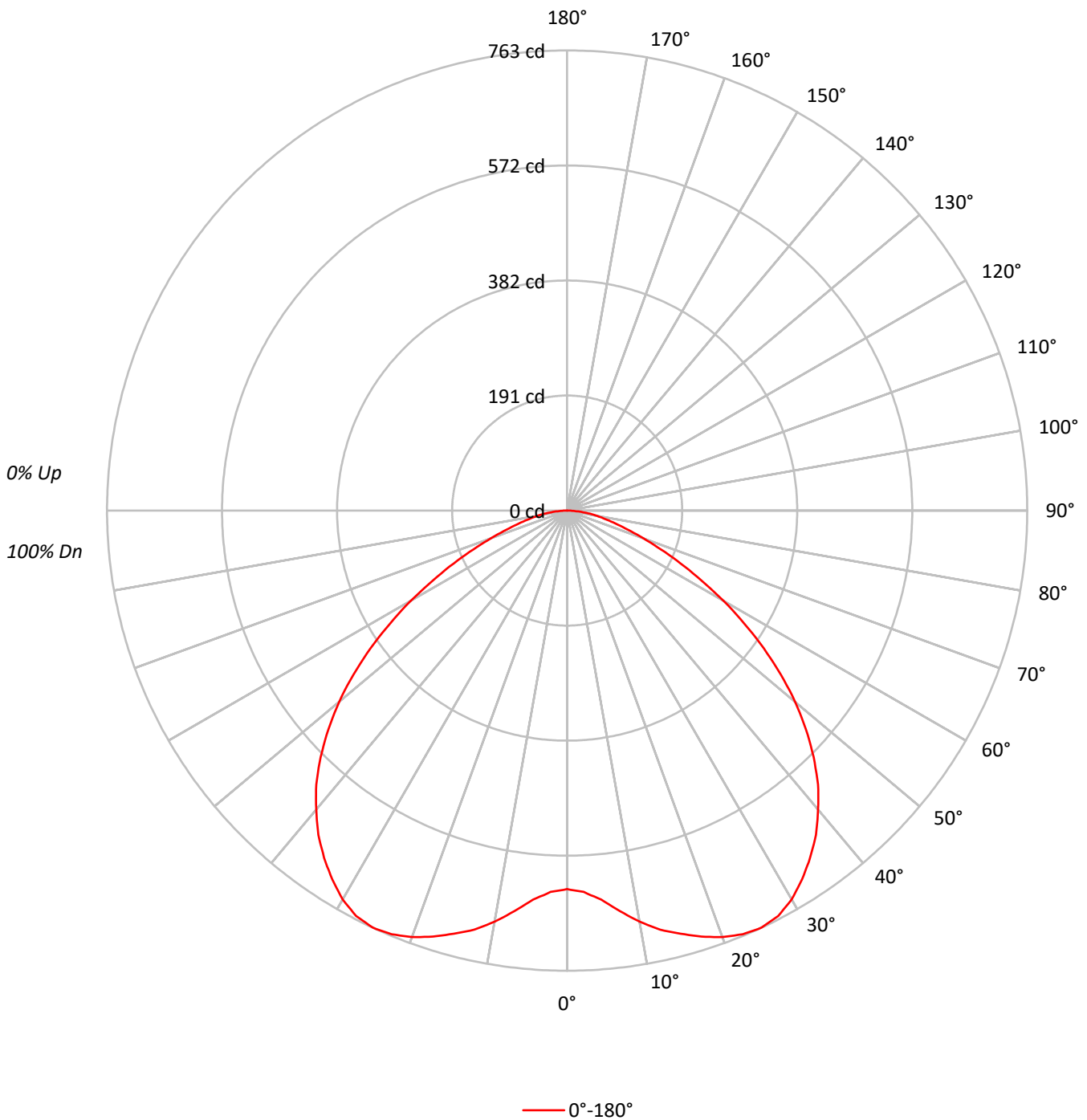
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54905
5°	56844
10°	61471
15°	65761
20°	70045
25°	73639
30°	75205
35°	75024
40°	73922
45°	71474
50°	67195
55°	60679
60°	52377
65°	42946
70°	34244
75°	27949
80°	25135
85°	21076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	2.9
10°-20°	206.4	9.5
20°-30°	350.5	16.1
30°-40°	438.7	20.1
40°-50°	443.9	20.4
50°-60°	354.7	16.3
60°-70°	208.2	9.5
70°-80°	90.7	4.2
80°-90°	24.3	1.1
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°	620.2	28.4
0°-40°	1059.0	48.6
0°-60°	1857.6	85.2
0°-90°	2180.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2180.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	628	
5°	647	63
15°	726	206
25°	763	350
35°	703	439
45°	578	444
55°	398	355
65°	208	208
75°	83	91
85°	21	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	627.7
2.5°	633.0
5°	647.4
7.5°	669.7
10°	692.1
12.5°	711.8
15°	726.2
17.5°	740.7
20°	752.5
22.5°	760.4
25°	763.0
27.5°	757.7
30°	744.6
32.5°	724.9
35°	702.6
37.5°	677.6
40°	647.4
42.5°	615.9
45°	577.8
47.5°	537.1
50°	493.8
52.5°	446.5
55°	397.9
57.5°	348.0
60°	299.4
62.5°	250.8
65°	207.5
67.5°	168.1
70°	133.9
72.5°	105.1
75°	82.7
77.5°	64.3
80°	49.9
82.5°	35.5
85°	21.0
87.5°	7.9
90°	0.0

(END OF REPORT)