

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: P345320

Luminaire Tested: **PR4FS24D010 PR4M24WD9FSMW 4000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345320
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 4000Lm3500K
Description: PR4 WIDE LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3425.3 lumens
Efficiency: N/A
Efficacy: 87.8 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

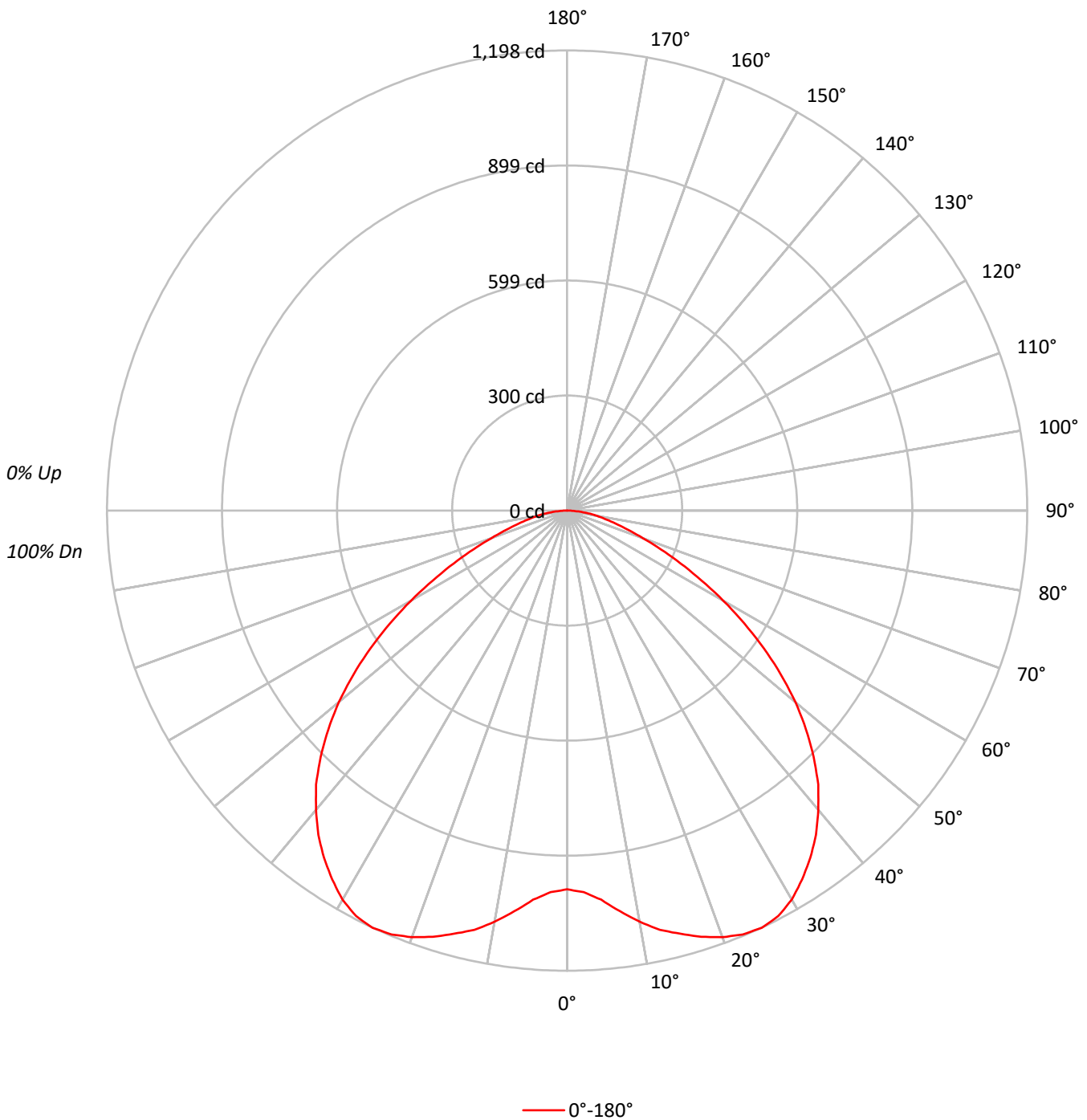
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	86245
5°	89287
10°	96546
15°	103296
20°	110015
25°	115660
30°	118121
35°	117832
40°	116113
45°	112271
50°	105542
55°	95311
60°	82274
65°	67452
70°	53808
75°	43900
80°	39491
85°	33119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	2.9
10°-20°	324.2	9.5
20°-30°	550.5	16.1
30°-40°	689.1	20.1
40°-50°	697.3	20.4
50°-60°	557.2	16.3
60°-70°	327.0	9.5
70°-80°	142.4	4.2
80°-90°	38.2	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°	974.2	28.4
0°-40°	1663.3	48.6
0°-60°	2917.7	85.2
0°-90°	3425.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3425.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	986	
5°	1017	99
15°	1141	324
25°	1198	551
35°	1104	689
45°	908	697
55°	625	557
65°	326	327
75°	130	142
85°	33	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	986.0
2.5°	994.2
5°	1016.9
7.5°	1052.0
10°	1087.0
12.5°	1118.0
15°	1140.7
17.5°	1163.3
20°	1181.9
22.5°	1194.3
25°	1198.4
27.5°	1190.2
30°	1169.5
32.5°	1138.6
35°	1103.5
37.5°	1064.3
40°	1016.9
42.5°	967.4
45°	907.6
47.5°	843.6
50°	775.6
52.5°	701.3
55°	625.0
57.5°	546.6
60°	470.3
62.5°	394.0
65°	325.9
67.5°	264.0
70°	210.4
72.5°	165.0
75°	129.9
77.5°	101.1
80°	78.4
82.5°	55.7
85°	33.0
87.5°	12.4
90°	0.0

(END OF REPORT)