

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: P345286

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSMW 1000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345286
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: PR4FS12D010 PR4M12WD8FSMW 1000Lm3000K
Description: PR4 WIDE LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 934.5 lumens
Efficiency: N/A
Efficacy: 89.9 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

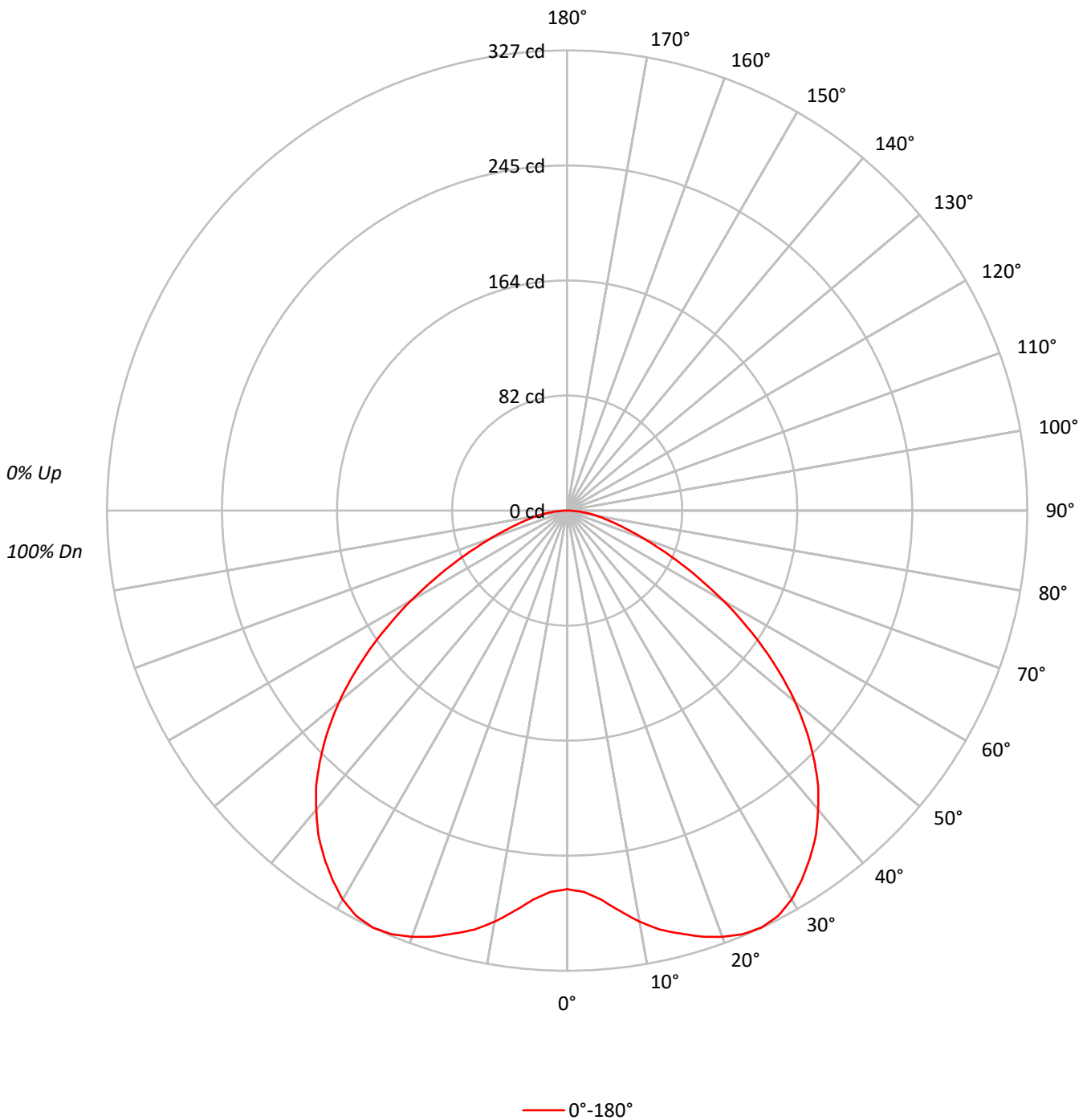
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23529
5°	24357
10°	26344
15°	28181
20°	30010
25°	31550
30°	32229
35°	32152
40°	31674
45°	30628
50°	28794
55°	26001
60°	22445
65°	18400
70°	14680
75°	11997
80°	10780
85°	9032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.1	2.9
10°-20°	88.5	9.5
20°-30°	150.2	16.1
30°-40°	188.0	20.1
40°-50°	190.2	20.4
50°-60°	152.0	16.3
60°-70°	89.2	9.5
70°-80°	38.9	4.2
80°-90°	10.4	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°	265.8	28.4
0°-40°	453.8	48.6
0°-60°	796.0	85.2
0°-90°	934.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	934.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	269	
5°	277	27
15°	311	88
25°	327	150
35°	301	188
45°	248	190
55°	170	152
65°	89	89
75°	36	39
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	269.0
2.5°	271.2
5°	277.4
7.5°	287.0
10°	296.6
12.5°	305.0
15°	311.2
17.5°	317.4
20°	322.4
22.5°	325.8
25°	326.9
27.5°	324.7
30°	319.1
32.5°	310.6
35°	301.1
37.5°	290.4
40°	277.4
42.5°	263.9
45°	247.6
47.5°	230.2
50°	211.6
52.5°	191.3
55°	170.5
57.5°	149.1
60°	128.3
62.5°	107.5
65°	88.9
67.5°	72.0
70°	57.4
72.5°	45.0
75°	35.5
77.5°	27.6
80°	21.4
82.5°	15.2
85°	9.0
87.5°	3.4
90°	0.0

(END OF REPORT)