

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: P345289

Luminaire Tested: **PR4FS12D010 PR4M12WD9FSMW 1000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345289
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 PR4M12WD9FSMW 1000Lm3000K
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: 796.7 lumens
Efficiency: N/A
Efficacy: 76.6 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

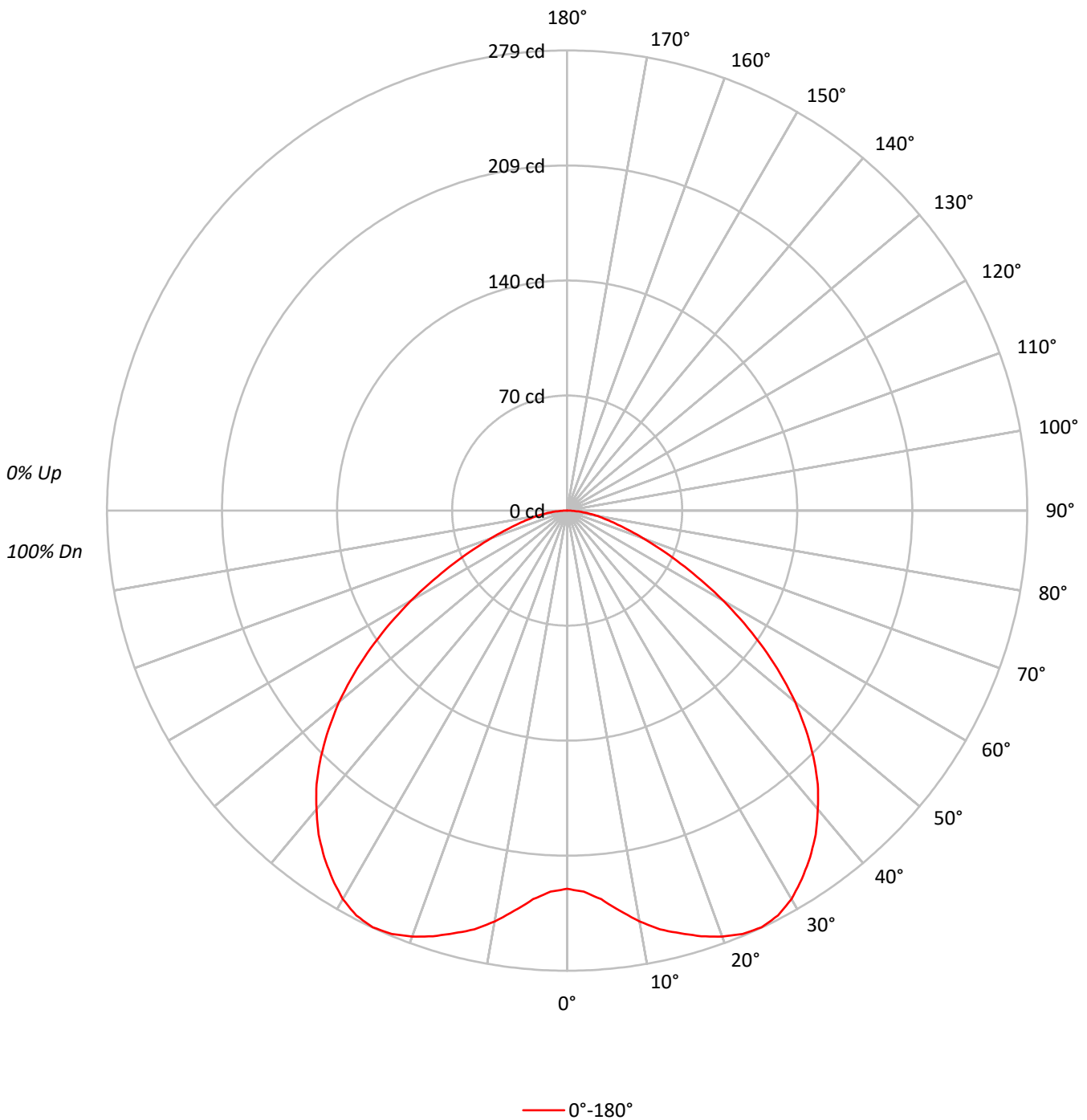
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20057
5°	20766
10°	22462
15°	24024
20°	25589
25°	26908
30°	27472
35°	27411
40°	27004
45°	26113
50°	24549
55°	22173
60°	19138
65°	15688
70°	12506
75°	10206
80°	9168
85°	7728



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	2.9
10°-20°	75.4	9.5
20°-30°	128.0	16.1
30°-40°	160.3	20.1
40°-50°	162.2	20.4
50°-60°	129.6	16.3
60°-70°	76.0	9.5
70°-80°	33.1	4.2
80°-90°	8.9	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°	226.6	28.4
0°-40°	386.9	48.6
0°-60°	678.7	85.2
0°-90°	796.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	796.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	229	
5°	236	23
15°	265	75
25°	279	128
35°	257	160
45°	211	162
55°	145	130
65°	76	76
75°	30	33
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	229.3
2.5°	231.3
5°	236.5
7.5°	244.7
10°	252.9
12.5°	260.1
15°	265.3
17.5°	270.6
20°	274.9
22.5°	277.8
25°	278.8
27.5°	276.8
30°	272.0
32.5°	264.9
35°	256.7
37.5°	247.6
40°	236.5
42.5°	225.0
45°	211.1
47.5°	196.2
50°	180.4
52.5°	163.1
55°	145.4
57.5°	127.1
60°	109.4
62.5°	91.6
65°	75.8
67.5°	61.4
70°	48.9
72.5°	38.4
75°	30.2
77.5°	23.5
80°	18.2
82.5°	13.0
85°	7.7
87.5°	2.9
90°	0.0

(END OF REPORT)