

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: P345296

Luminaire Tested: **PR4FS12D010 PR4M12WD9FSMW 1500Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345296
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 1500Lm3500K
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: 1126.7 lumens
Efficiency: N/A
Efficacy: 84.7 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

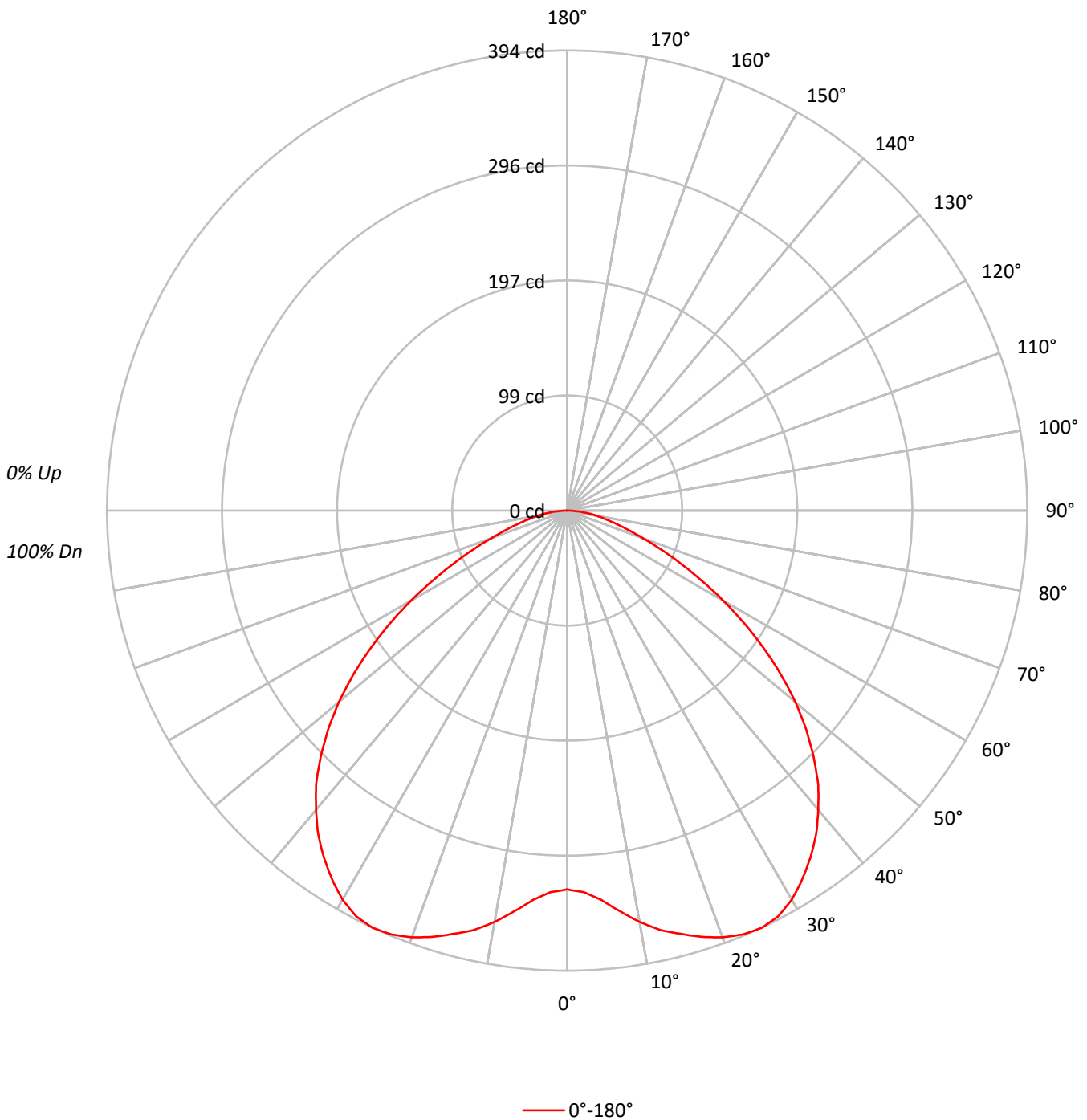
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	28366
5°	29370
10°	31762
15°	33976
20°	36191
25°	38045
30°	38855
35°	38761
40°	38194
45°	36925
50°	34714
55°	31354
60°	27063
65°	22187
70°	17697
75°	14431
80°	12996
85°	10939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	2.9
10°-20°	106.7	9.5
20°-30°	181.1	16.1
30°-40°	226.7	20.1
40°-50°	229.4	20.4
50°-60°	183.3	16.3
60°-70°	107.5	9.5
70°-80°	46.8	4.2
80°-90°	12.6	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°	320.5	28.4
0°-40°	547.1	48.6
0°-60°	959.8	85.2
0°-90°	1126.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	324	
5°	334	33
15°	375	107
25°	394	181
35°	363	227
45°	298	229
55°	206	183
65°	107	108
75°	43	47
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	324.3
2.5°	327.0
5°	334.5
7.5°	346.0
10°	357.6
12.5°	367.8
15°	375.2
17.5°	382.7
20°	388.8
22.5°	392.9
25°	394.2
27.5°	391.5
30°	384.7
32.5°	374.5
35°	363.0
37.5°	350.1
40°	334.5
42.5°	318.2
45°	298.5
47.5°	277.5
50°	255.1
52.5°	230.7
55°	205.6
57.5°	179.8
60°	154.7
62.5°	129.6
65°	107.2
67.5°	86.8
70°	69.2
72.5°	54.3
75°	42.7
77.5°	33.2
80°	25.8
82.5°	18.3
85°	10.9
87.5°	4.1
90°	0.0

(END OF REPORT)