

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: P345288

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSMW 1000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345288
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 1000Lm4000K
Description: PR4 WIDE LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 991.8 lumens
Efficiency: N/A
Efficacy: 95.4 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

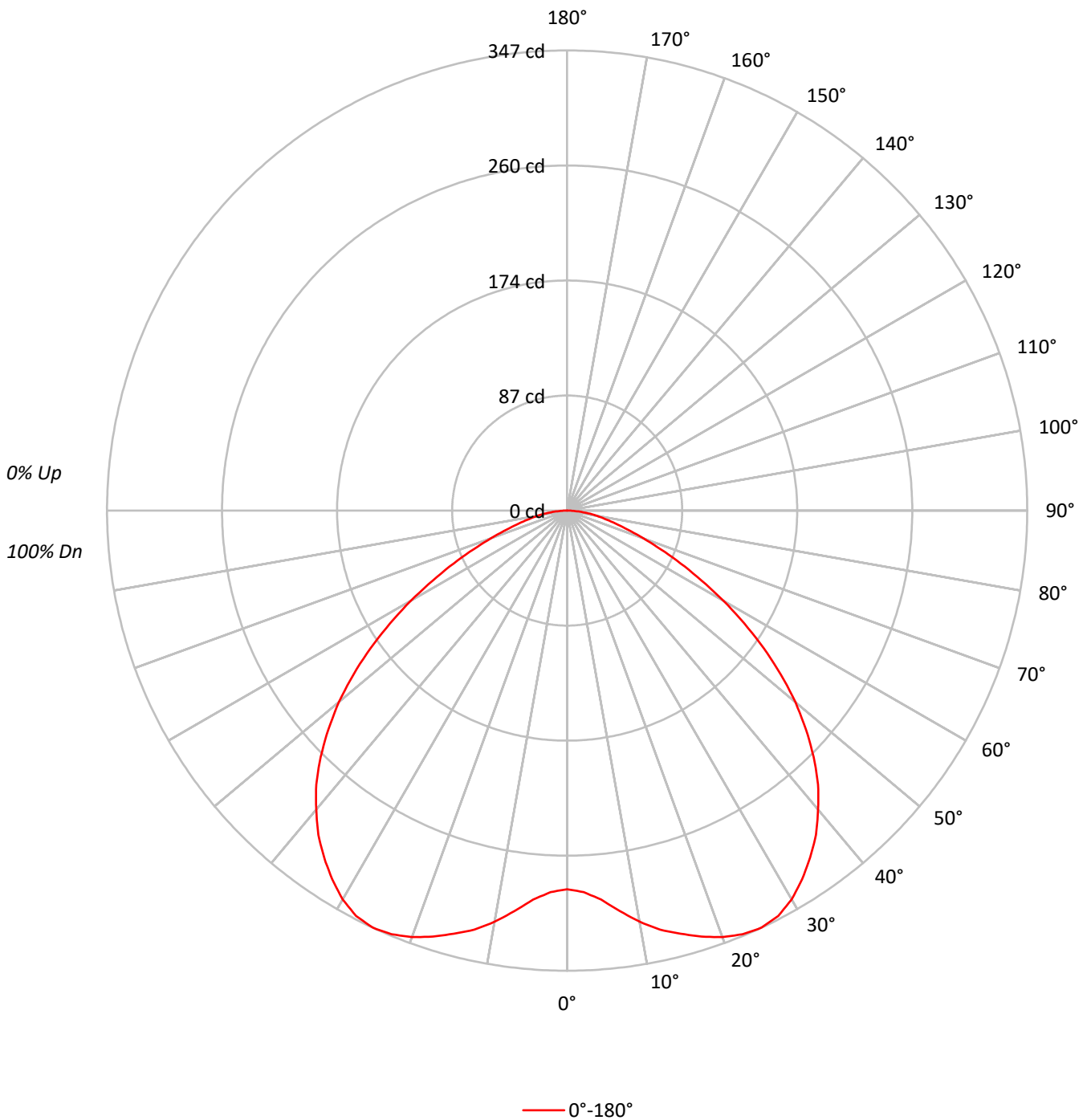
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	24973
5°	25849
10°	27960
15°	29910
20°	31853
25°	33490
30°	34199
35°	34116
40°	33616
45°	32508
50°	30563
55°	27602
60°	23827
65°	19538
70°	15575
75°	12707
80°	11434
85°	9635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	2.9
10°-20°	93.9	9.5
20°-30°	159.4	16.1
30°-40°	199.5	20.1
40°-50°	201.9	20.4
50°-60°	161.4	16.3
60°-70°	94.7	9.5
70°-80°	41.2	4.2
80°-90°	11.1	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°	282.1	28.4
0°-40°	481.6	48.6
0°-60°	844.9	85.2
0°-90°	991.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	991.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	286	
5°	294	29
15°	330	94
25°	347	159
35°	320	200
45°	263	202
55°	181	161
65°	94	95
75°	38	41
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	285.5
2.5°	287.9
5°	294.4
7.5°	304.6
10°	314.8
12.5°	323.7
15°	330.3
17.5°	336.9
20°	342.2
22.5°	345.8
25°	347.0
27.5°	344.6
30°	338.6
32.5°	329.7
35°	319.5
37.5°	308.2
40°	294.4
42.5°	280.1
45°	262.8
47.5°	244.3
50°	224.6
52.5°	203.1
55°	181.0
57.5°	158.3
60°	136.2
62.5°	114.1
65°	94.4
67.5°	76.4
70°	60.9
72.5°	47.8
75°	37.6
77.5°	29.3
80°	22.7
82.5°	16.1
85°	9.6
87.5°	3.6
90°	0.0

(END OF REPORT)