

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: P345367

Luminaire Tested: **PR4FS12D010 PR4M12WD9FSBZ 1500Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12WD9FSBZ 1500Lm3000K
Description: PR4 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 848.4 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.57
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

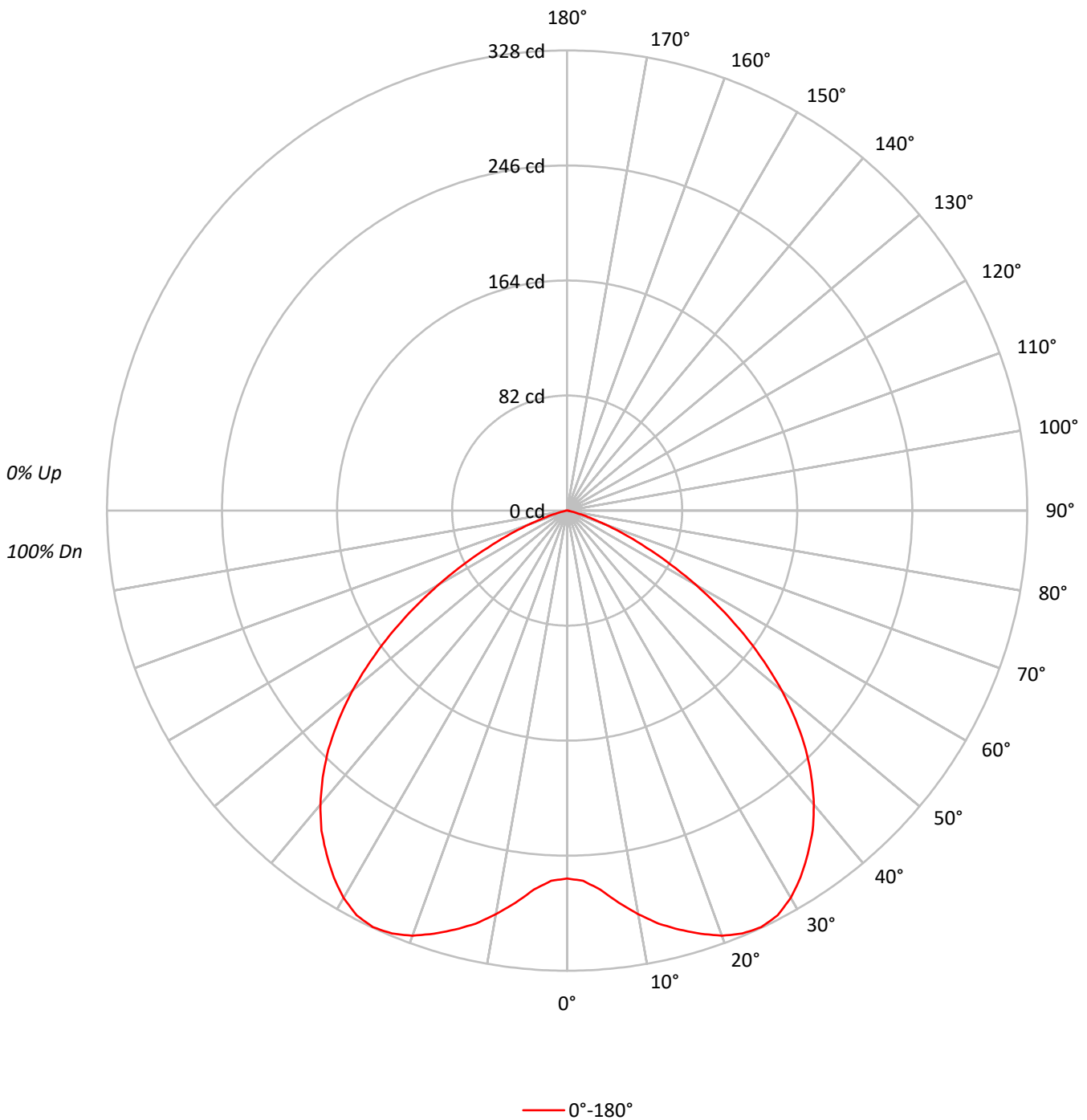
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	63	51	42	37	62	50	42	37	49	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22934
5°	23804
10°	25944
15°	28000
20°	30019
25°	31617
30°	32189
35°	31927
40°	31241
45°	29762
50°	27216
55°	23424
60°	18544
65°	12874
70°	7314
75°	3008
80°	655
85°	1305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	3.1
10°-20°	87.9	10.4
20°-30°	150.3	17.7
30°-40°	186.7	22.0
40°-50°	184.3	21.7
50°-60°	136.7	16.1
60°-70°	63.2	7.4
70°-80°	11.6	1.4
80°-90°	1.0	0.1
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°	264.8	31.2
0°-40°	451.6	53.2
0°-60°	772.6	91.1
0°-90°	848.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	848.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	262	
5°	271	27
15°	309	88
25°	328	150
35°	299	187
45°	241	184
55°	154	137
65°	62	63
75°	9	12
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	262.2
2.5°	264.1
5°	271.1
7.5°	281.9
10°	292.1
12.5°	301.6
15°	309.2
17.5°	316.2
20°	322.5
22.5°	326.3
25°	327.6
27.5°	325.1
30°	318.7
32.5°	309.8
35°	299.0
37.5°	287.6
40°	273.6
42.5°	257.8
45°	240.6
47.5°	220.9
50°	200.0
52.5°	177.1
55°	153.6
57.5°	129.5
60°	106.0
62.5°	83.2
65°	62.2
67.5°	43.8
70°	28.6
72.5°	17.1
75°	8.9
77.5°	3.2
80°	1.3
82.5°	1.3
85°	1.3
87.5°	0.6
90°	0.0

(END OF REPORT)