

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: P345370

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSBZ 2000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345370
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 PR4M12WD8FSBZ 2000Lm3000K
Description: PR4 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1612.6 lumens
Efficiency: N/A
Efficacy: 77.9 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

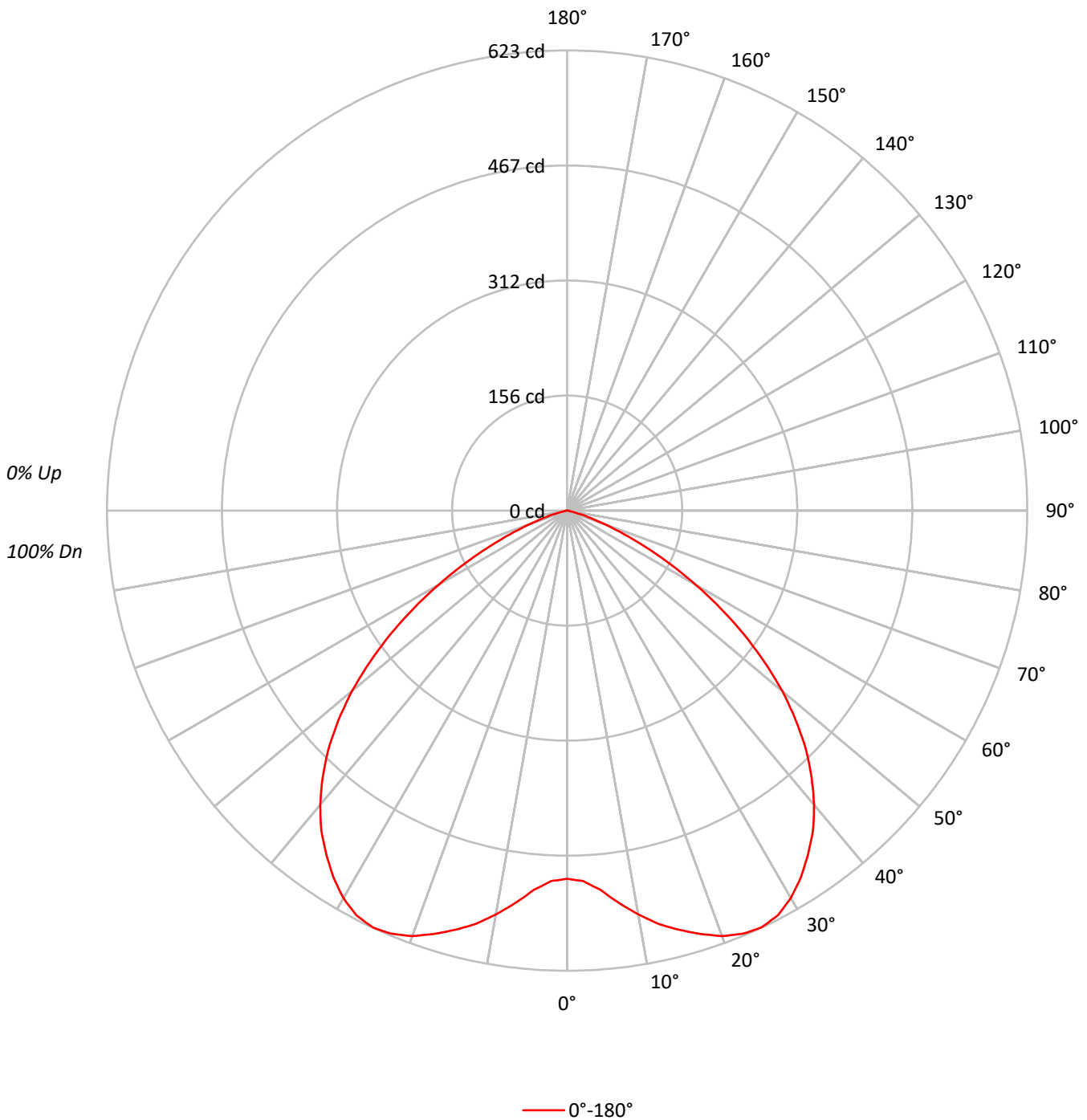
Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	43595
5°	45245
10°	49303
15°	53219
20°	57060
25°	60098
30°	61186
35°	60694
40°	59387
45°	56568
50°	51723
55°	44530
60°	35250
65°	24485
70°	13887
75°	5711
80°	1209
85°	2409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	3.1
10°-20°	167.1	10.4
20°-30°	285.8	17.7
30°-40°	355.0	22.0
40°-50°	350.4	21.7
50°-60°	259.9	16.1
60°-70°	120.1	7.4
70°-80°	22.0	1.4
80°-90°	2.0	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°	503.4	31.2
0°-40°	858.3	53.2
0°-60°	1468.6	91.1
0°-90°	1612.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1612.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	498	
5°	515	51
15°	588	167
25°	623	286
35°	568	355
45°	457	350
55°	292	260
65°	118	120
75°	17	22
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	498.4
2.5°	502.0
5°	515.3
7.5°	535.8
10°	555.1
12.5°	573.2
15°	587.7
17.5°	600.9
20°	613.0
22.5°	620.3
25°	622.7
27.5°	617.8
30°	605.8
32.5°	588.9
35°	568.4
37.5°	546.6
40°	520.1
42.5°	489.9
45°	457.3
47.5°	419.9
50°	380.1
52.5°	336.7
55°	292.0
57.5°	246.2
60°	201.5
62.5°	158.1
65°	118.3
67.5°	83.3
70°	54.3
72.5°	32.6
75°	16.9
77.5°	6.0
80°	2.4
82.5°	2.4
85°	2.4
87.5°	1.2
90°	0.0

(END OF REPORT)