

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: P345361

Luminaire Tested: **PR4FS12D010 PR4M12WD9FSBZ 1000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345361
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 1000Lm3000K
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: 641.8 lumens
Efficiency: N/A
Efficacy: 61.7 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

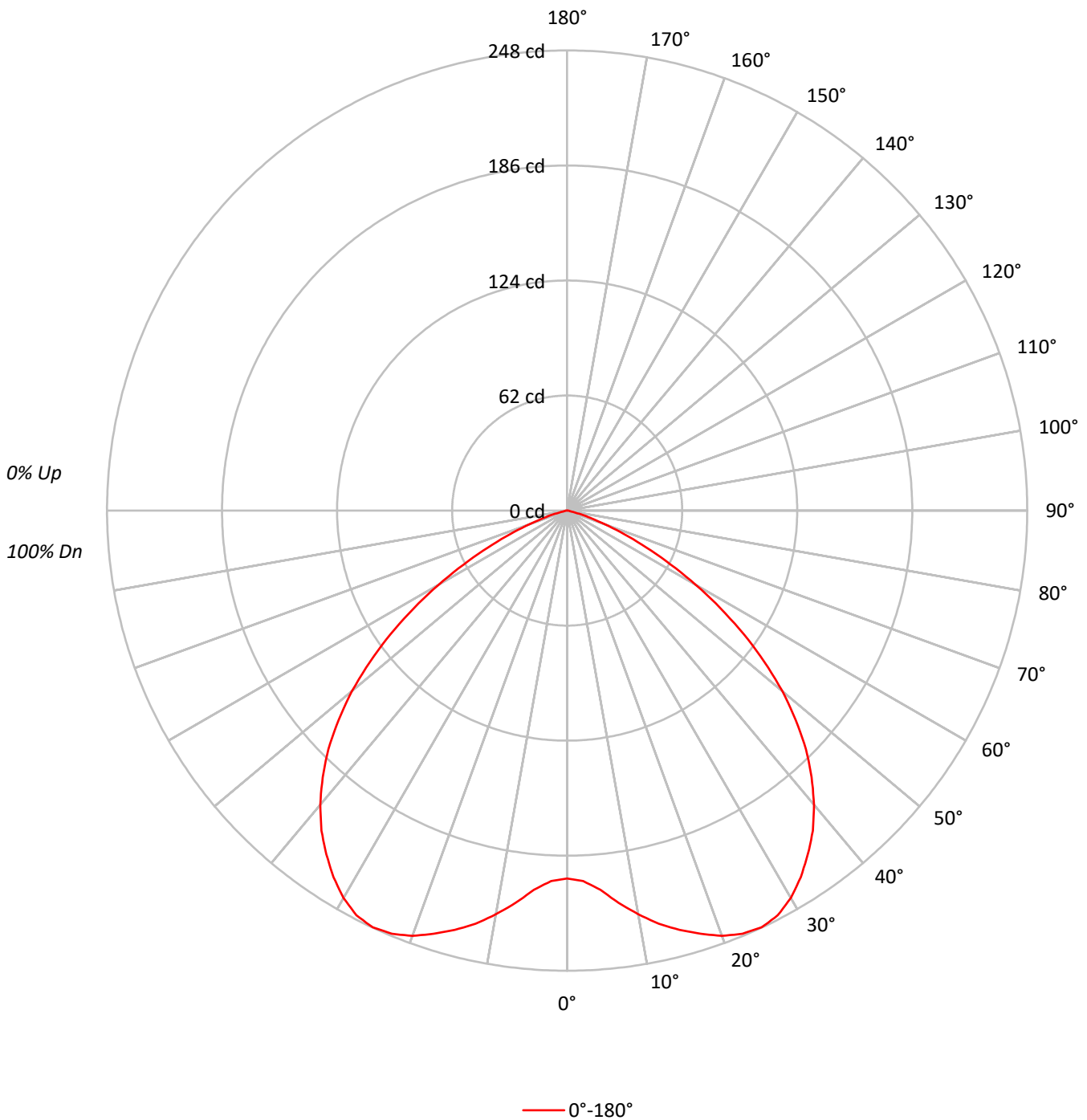
Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	17345
5°	18009
10°	19620
15°	21181
20°	22703
25°	23916
30°	24351
35°	24154
40°	23636
45°	22513
50°	20589
55°	17720
60°	14030
65°	9748
70°	5524
75°	2264
80°	504
85°	1004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.1	3.1
10°-20°	66.5	10.4
20°-30°	113.7	17.7
30°-40°	141.3	22.0
40°-50°	139.4	21.7
50°-60°	103.4	16.1
60°-70°	47.8	7.4
70°-80°	8.8	1.4
80°-90°	0.8	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°	200.3	31.2
0°-40°	341.6	53.2
0°-60°	584.5	91.1
0°-90°	641.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	198	
5°	205	20
15°	234	66
25°	248	114
35°	226	141
45°	182	139
55°	116	103
65°	47	48
75°	7	9
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	198.3
2.5°	199.8
5°	205.1
7.5°	213.2
10°	220.9
12.5°	228.1
15°	233.9
17.5°	239.1
20°	243.9
22.5°	246.8
25°	247.8
27.5°	245.9
30°	241.1
32.5°	234.3
35°	226.2
37.5°	217.5
40°	207.0
42.5°	195.0
45°	182.0
47.5°	167.1
50°	151.3
52.5°	134.0
55°	116.2
57.5°	98.0
60°	80.2
62.5°	62.9
65°	47.1
67.5°	33.1
70°	21.6
72.5°	13.0
75°	6.7
77.5°	2.4
80°	1.0
82.5°	1.0
85°	1.0
87.5°	0.5
90°	0.0

(END OF REPORT)