

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: P345382

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSBZ 3000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345382
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: PR4FS24D010 PR4M24WD8FSBZ 3000Lm3000K
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: 2024.0 lumens
Efficiency: N/A
Efficacy: 71.0 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

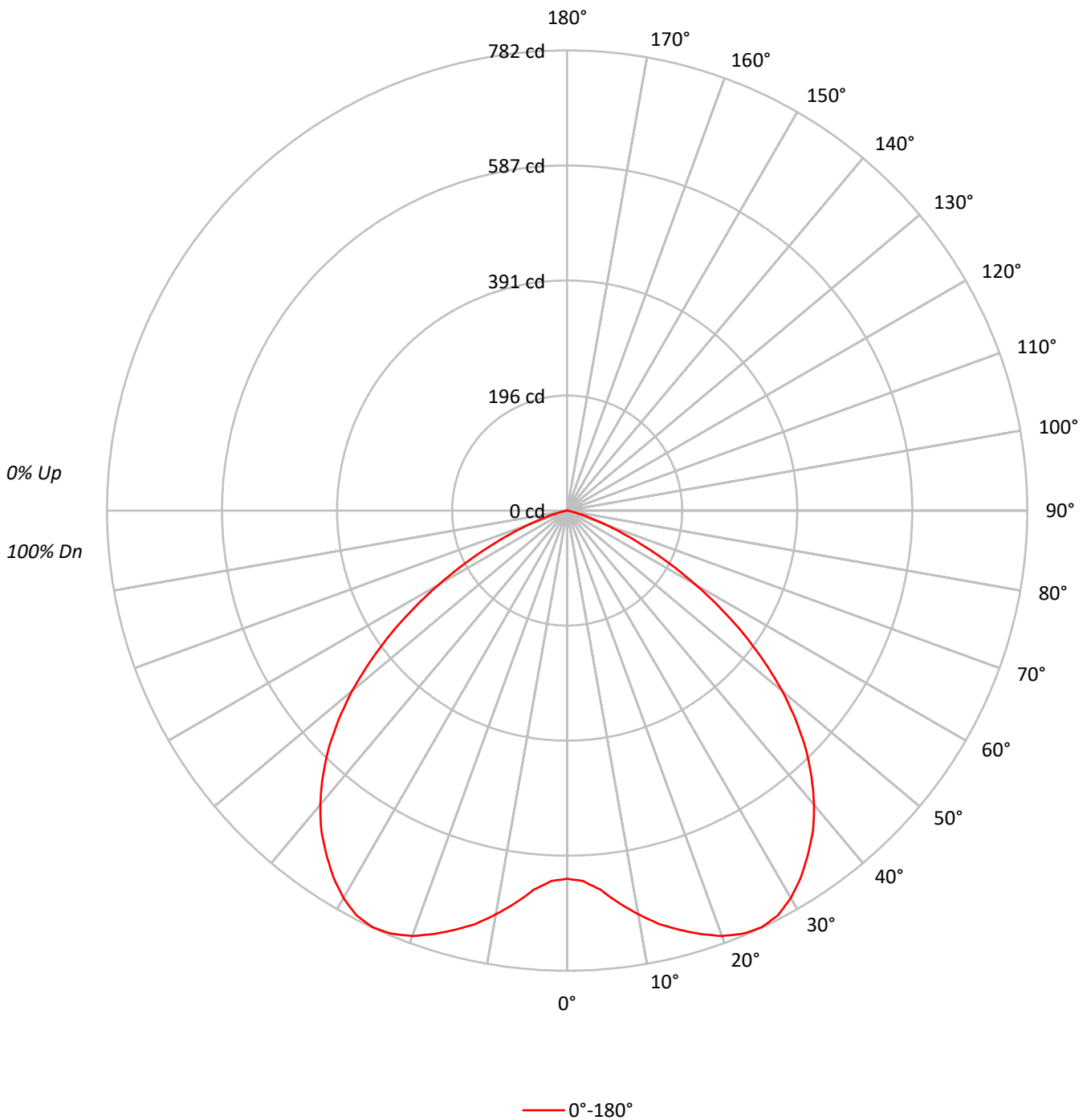
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88					88			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65					65			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57					57			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	63	51	42	37	62	50	42	37	49	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31					31			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54712
5°	56783
10°	61880
15°	66793
20°	71618
25°	75424
30°	76791
35°	76177
40°	74539
45°	71004
50°	64923
55°	55891
60°	44242
65°	30714
70°	17442
75°	7165
80°	1511
85°	3011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.1
10°-20°	209.7	10.4
20°-30°	358.7	17.7
30°-40°	445.5	22.0
40°-50°	439.8	21.7
50°-60°	326.2	16.1
60°-70°	150.7	7.4
70°-80°	27.6	1.4
80°-90°	2.5	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°	631.8	31.2
0°-40°	1077.3	53.2
0°-60°	1843.3	91.1
0°-90°	2024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2024.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	626	
5°	647	63
15°	738	210
25°	782	359
35°	713	446
45°	574	440
55°	366	326
65°	148	151
75°	21	28
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	625.5
2.5°	630.1
5°	646.7
7.5°	672.5
10°	696.7
12.5°	719.4
15°	737.6
17.5°	754.3
20°	769.4
22.5°	778.5
25°	781.5
27.5°	775.5
30°	760.3
32.5°	739.1
35°	713.4
37.5°	686.1
40°	652.8
42.5°	614.9
45°	574.0
47.5°	527.1
50°	477.1
52.5°	422.6
55°	366.5
57.5°	309.0
60°	252.9
62.5°	198.4
65°	148.4
67.5°	104.5
70°	68.2
72.5°	40.9
75°	21.2
77.5°	7.6
80°	3.0
82.5°	3.0
85°	3.0
87.5°	1.5
90°	0.0

(END OF REPORT)