

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: P345386

Luminaire Tested: **PR4FS24D010 PR4M24WD9FSBZ 3000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345386
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 PR4M24WD9FSBZ 3000Lm3500K
Description: PR4 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1922.8 lumens
Efficiency: N/A
Efficacy: 73.7 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

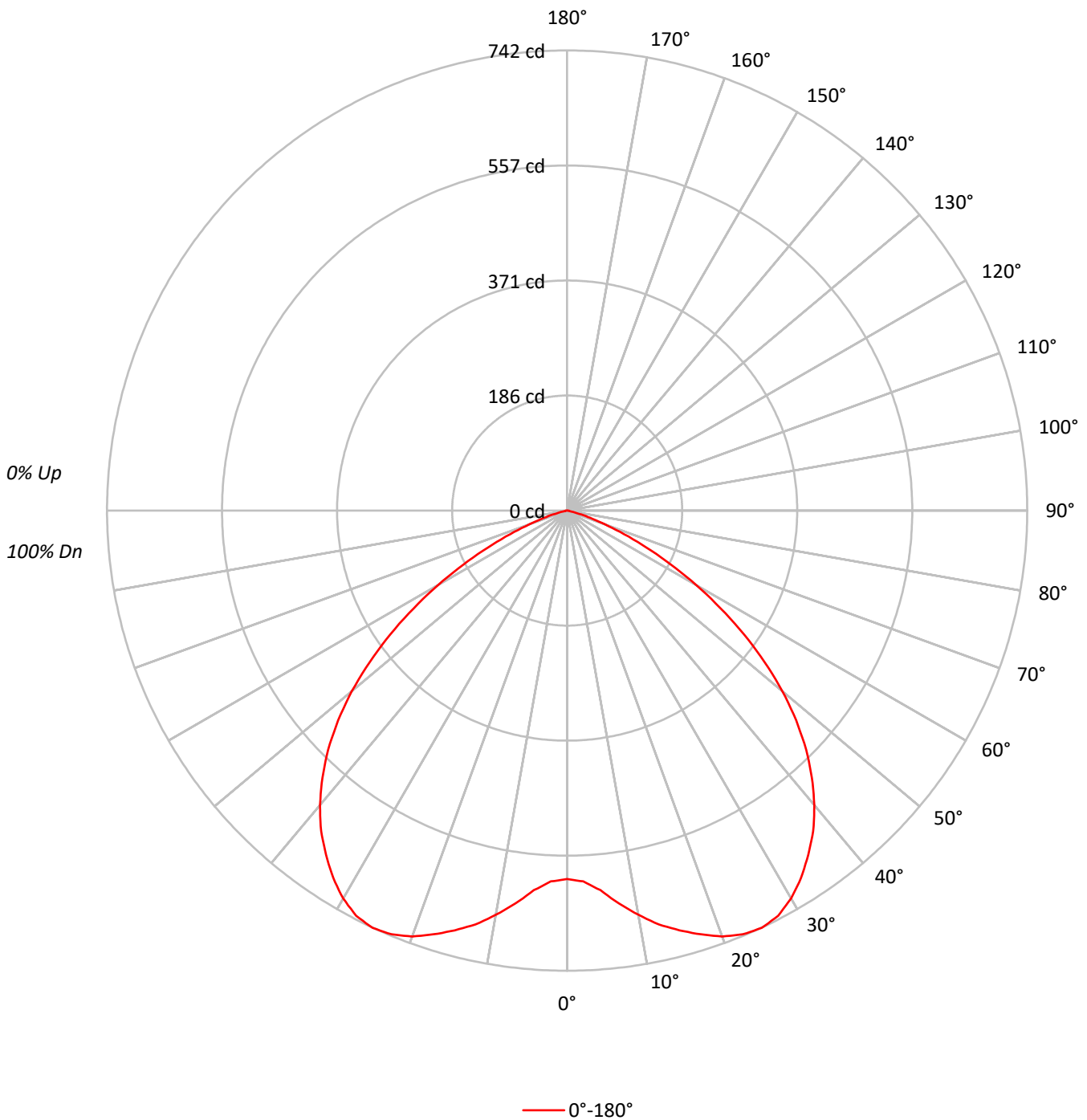
Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	51974
5°	53947
10°	58789
15°	63452
20°	68034
25°	71650
30°	72953
35°	72365
40°	70805
45°	67454
50°	61671
55°	53100
60°	42038
65°	29183
70°	16547
75°	6793
80°	1461
85°	2910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	3.1
10°-20°	199.2	10.4
20°-30°	340.7	17.7
30°-40°	423.2	22.0
40°-50°	417.8	21.7
50°-60°	309.9	16.1
60°-70°	143.1	7.4
70°-80°	26.2	1.4
80°-90°	2.4	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°	600.2	31.2
0°-40°	1023.4	53.2
0°-60°	1751.1	91.1
0°-90°	1922.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	594	
5°	614	60
15°	701	199
25°	742	341
35°	678	423
45°	545	418
55°	348	310
65°	141	143
75°	20	26
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	594.2
2.5°	598.6
5°	614.4
7.5°	638.8
10°	661.9
12.5°	683.5
15°	700.7
17.5°	716.5
20°	730.9
22.5°	739.6
25°	742.4
27.5°	736.7
30°	722.3
32.5°	702.2
35°	677.7
37.5°	651.8
40°	620.1
42.5°	584.2
45°	545.3
47.5°	500.7
50°	453.2
52.5°	401.4
55°	348.2
57.5°	293.5
60°	240.3
62.5°	188.5
65°	141.0
67.5°	99.3
70°	64.7
72.5°	38.8
75°	20.1
77.5°	7.2
80°	2.9
82.5°	2.9
85°	2.9
87.5°	1.4
90°	0.0

(END OF REPORT)