

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: P345383

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSBZ 3000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345383
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 3000Lm3500K
Description: PR4 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2247.9 lumens
Efficiency: N/A
Efficacy: 86.1 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

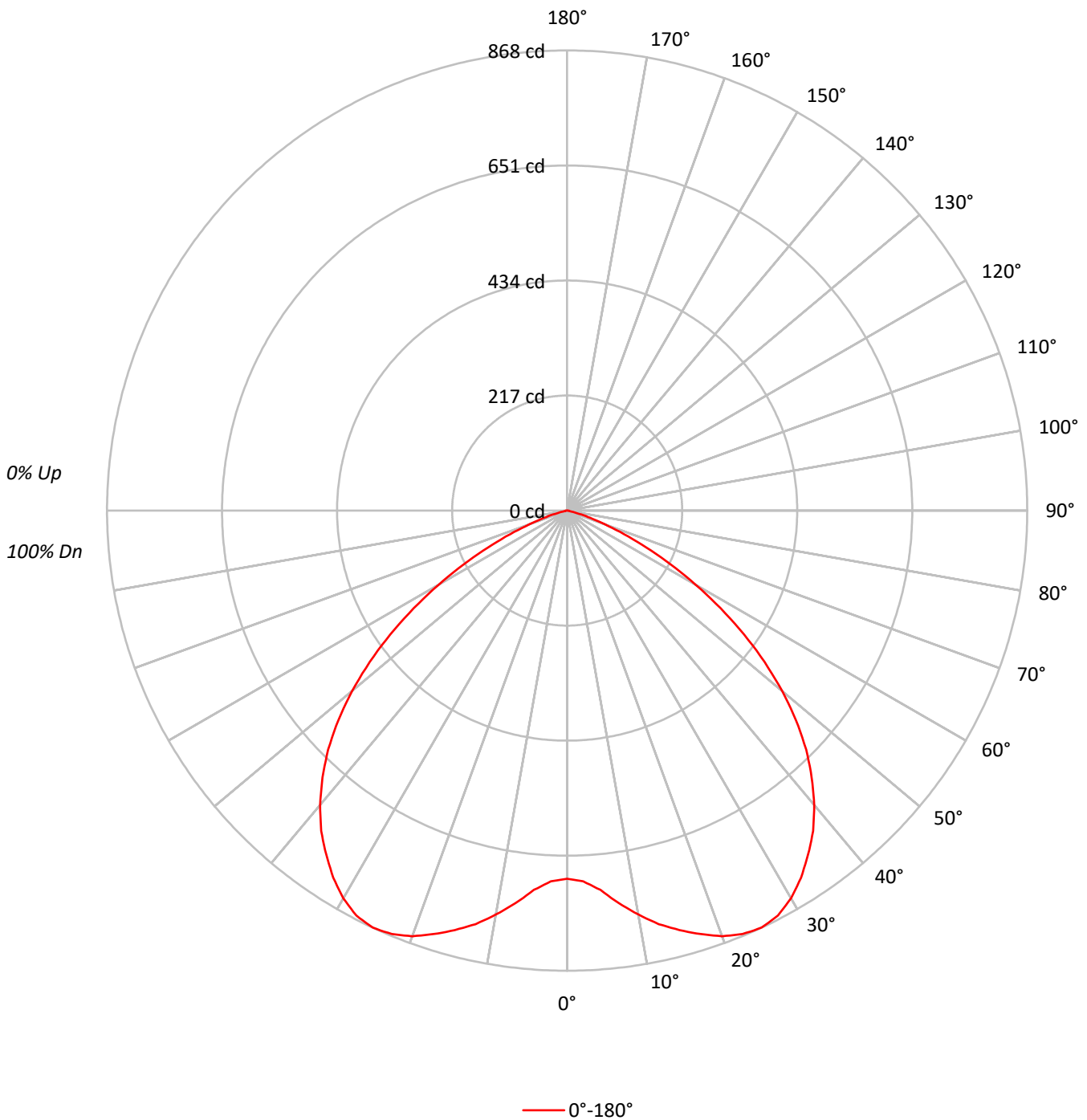
Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	60765
5°	63069
10°	68728
15°	74183
20°	79539
25°	83772
30°	85285
35°	84602
40°	82783
45°	78859
50°	72108
55°	62082
60°	49140
65°	34109
70°	19360
75°	7942
80°	1713
85°	3412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.1
10°-20°	232.9	10.4
20°-30°	398.3	17.7
30°-40°	494.8	22.0
40°-50°	488.4	21.7
50°-60°	362.3	16.1
60°-70°	167.3	7.4
70°-80°	30.6	1.4
80°-90°	2.8	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°	701.7	31.2
0°-40°	1196.5	53.2
0°-60°	2047.2	91.1
0°-90°	2247.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2247.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	695	
5°	718	70
15°	819	233
25°	868	398
35°	792	495
45°	638	488
55°	407	362
65°	165	167
75°	24	31
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	694.7
2.5°	699.8
5°	718.3
7.5°	746.8
10°	773.8
12.5°	799.0
15°	819.2
17.5°	837.7
20°	854.5
22.5°	864.6
25°	868.0
27.5°	861.2
30°	844.4
32.5°	820.9
35°	792.3
37.5°	762.0
40°	725.0
42.5°	682.9
45°	637.5
47.5°	585.4
50°	529.9
52.5°	469.3
55°	407.1
57.5°	343.1
60°	280.9
62.5°	220.4
65°	164.8
67.5°	116.1
70°	75.7
72.5°	45.4
75°	23.5
77.5°	8.4
80°	3.4
82.5°	3.4
85°	3.4
87.5°	1.7
90°	0.0

(END OF REPORT)