

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: P345387

Luminaire Tested: **PR4FS24D010 PR4M24WD9FSBZ 3000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345387
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 3000Lm4000K
Description: PR4 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1832.3 lumens
Efficiency: N/A
Efficacy: 64.3 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

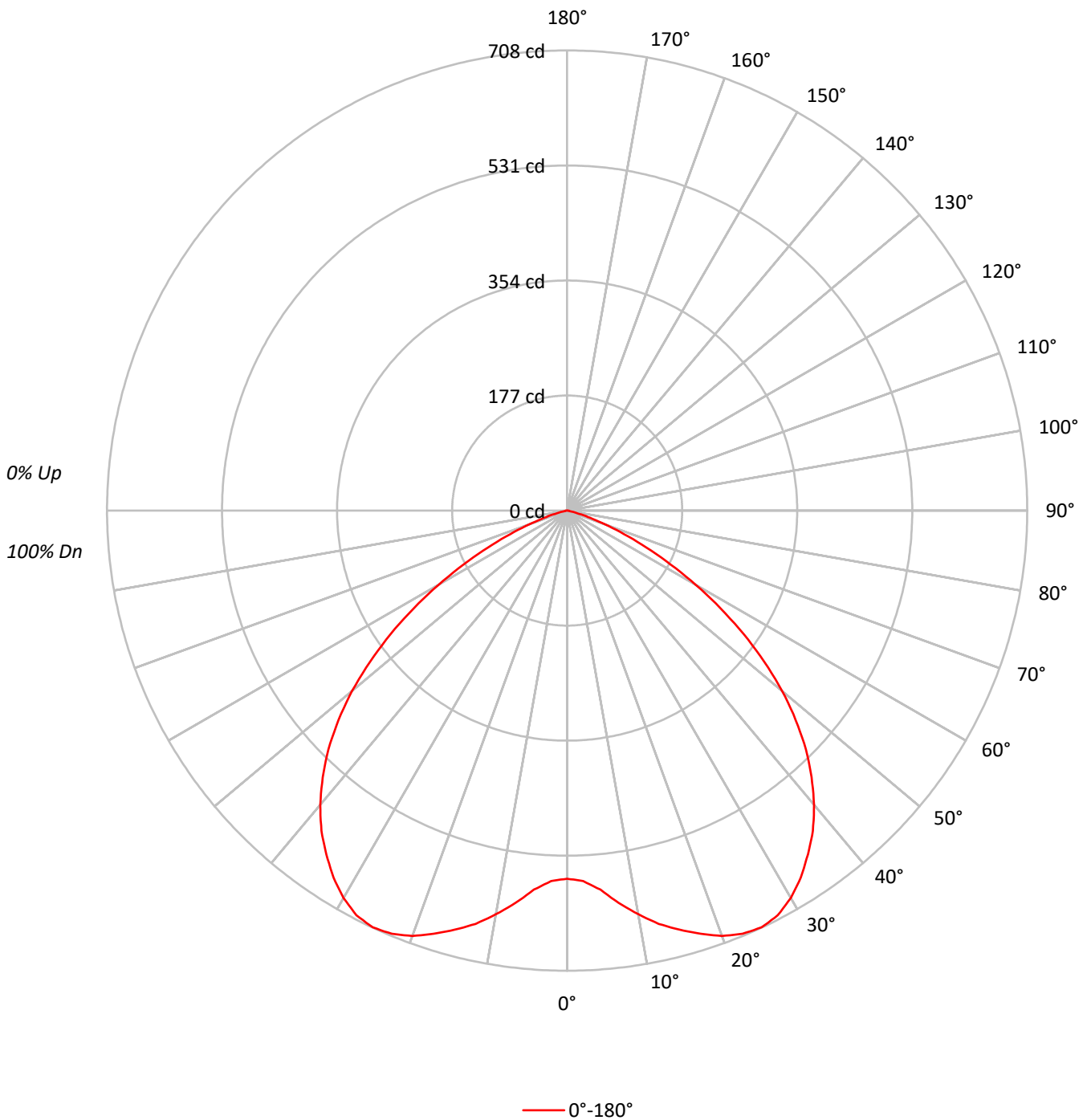
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345387

CATALOG NUMBER: PR4FS24D010 PR4M24WD9FSBZ 3000Lm4000K

Luminous Intensity Polar Plot





TEST NUMBER: P345387

CATALOG NUMBER: PR4FS24D010 PR4M24WD9FSBZ 3000Lm4000K

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°	49534
5°	51409
10°	56018
15°	60464
20°	64832
25°	68282
30°	69519
35°	68959
40°	67482
45°	64287
50°	58772
55°	50599
60°	40061
65°	27817
70°	15779
75°	6489
80°	1360
85°	2710



TEST NUMBER: P345387

CATALOG NUMBER: PR4FS24D010 PR4M24WD9FSBZ 3000Lm4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	3.1
10°-20°	189.8	10.4
20°-30°	324.7	17.7
30°-40°	403.3	22.0
40°-50°	398.1	21.7
50°-60°	295.3	16.1
60°-70°	136.4	7.4
70°-80°	25.0	1.4
80°-90°	2.2	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°	571.9	31.2
0°-40°	975.3	53.2
0°-60°	1668.7	91.1
0°-90°	1832.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1832.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	566	
5°	586	57
15°	668	190
25°	708	325
35°	646	403
45°	520	398
55°	332	295
65°	134	136
75°	19	25
85°	3	2
90°	0	



TEST NUMBER: P345387

CATALOG NUMBER: PR4FS24D010 PR4M24WD9FSBZ 3000Lm4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	566.3
2.5°	570.4
5°	585.5
7.5°	608.8
10°	630.7
12.5°	651.3
15°	667.7
17.5°	682.8
20°	696.5
22.5°	704.8
25°	707.5
27.5°	702.0
30°	688.3
32.5°	669.1
35°	645.8
37.5°	621.1
40°	591.0
42.5°	556.7
45°	519.7
47.5°	477.2
50°	431.9
52.5°	382.6
55°	331.8
57.5°	279.7
60°	229.0
62.5°	179.6
65°	134.4
67.5°	94.6
70°	61.7
72.5°	37.0
75°	19.2
77.5°	6.9
80°	2.7
82.5°	2.7
85°	2.7
87.5°	1.4
90°	0.0

(END OF REPORT)