

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: P345208

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSMW 4000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24MD8FSMW 4000Lm3000K
Description: PR4 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3536.1 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.02
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

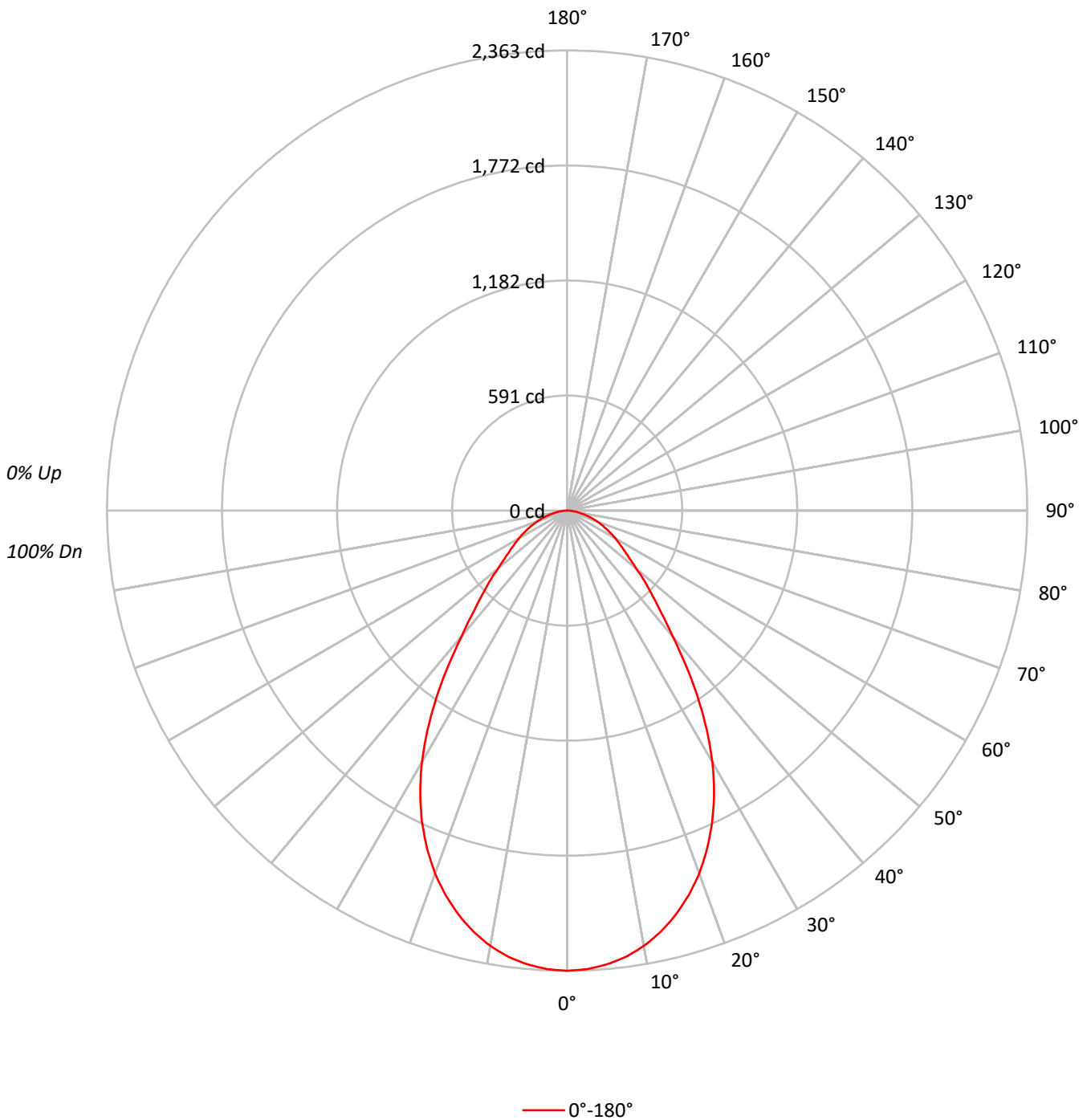
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345208

CATALOG NUMBER: PR4FS24D010 PR4M24MD8FSMW 4000Lm3000K

Luminous Intensity Polar Plot





TEST NUMBER: P345208

CATALOG NUMBER: PR4FS24D010 PR4M24MD8FSMW 4000Lm3000K

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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	73	65	59	81	72	64	59	70	63	59	68	62	58	66	61	57	56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46
8	69	57	50	45	67	56	49	44	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	51	45	41	50	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	206725
5°	205416
10°	201619
15°	194739
20°	184602
25°	170228
30°	150724
35°	124794
40°	96234
45°	76855
50°	62963
55°	54655
60°	50155
65°	45865
70°	42223
75°	36702
80°	32842
85°	26194



TEST NUMBER: P345208

CATALOG NUMBER: PR4FS24D010 PR4M24MD8FSMW 4000Lm3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.1	6.3
10°-20°	602.8	17.0
20°-30°	805.0	22.8
30°-40°	725.2	20.5
40°-50°	487.1	13.8
50°-60°	325.2	9.2
60°-70°	220.3	6.2
70°-80°	117.4	3.3
80°-90°	31.9	0.9
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°	1629.0	46.1
0°-40°	2354.2	66.6
0°-60°	3166.5	89.5
0°-90°	3536.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3536.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2363	
5°	2340	221
15°	2150	603
25°	1764	805
35°	1169	725
45°	621	487
55°	358	325
65°	222	220
75°	109	117
85°	26	32
90°	0	



TEST NUMBER: P345208

CATALOG NUMBER: PR4FS24D010 PR4M24MD8FSMW 4000Lm3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	2363.4
2.5°	2356.9
5°	2339.5
7.5°	2311.3
10°	2270.0
12.5°	2215.7
15°	2150.5
17.5°	2072.3
20°	1983.2
22.5°	1879.0
25°	1763.8
27.5°	1633.5
30°	1492.3
32.5°	1333.7
35°	1168.7
37.5°	999.2
40°	842.8
42.5°	719.0
45°	621.3
47.5°	543.1
50°	462.7
52.5°	404.0
55°	358.4
57.5°	319.3
60°	286.7
62.5°	252.0
65°	221.6
67.5°	191.2
70°	165.1
72.5°	136.9
75°	108.6
77.5°	84.7
80°	65.2
82.5°	45.6
85°	26.1
87.5°	13.0
90°	0.0

(END OF REPORT)