

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: P345209

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSMW 4000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345209
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 4000Lm3500K
Description: PR4 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3927.1 lumens
Efficiency: N/A
Efficacy: 100.7 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

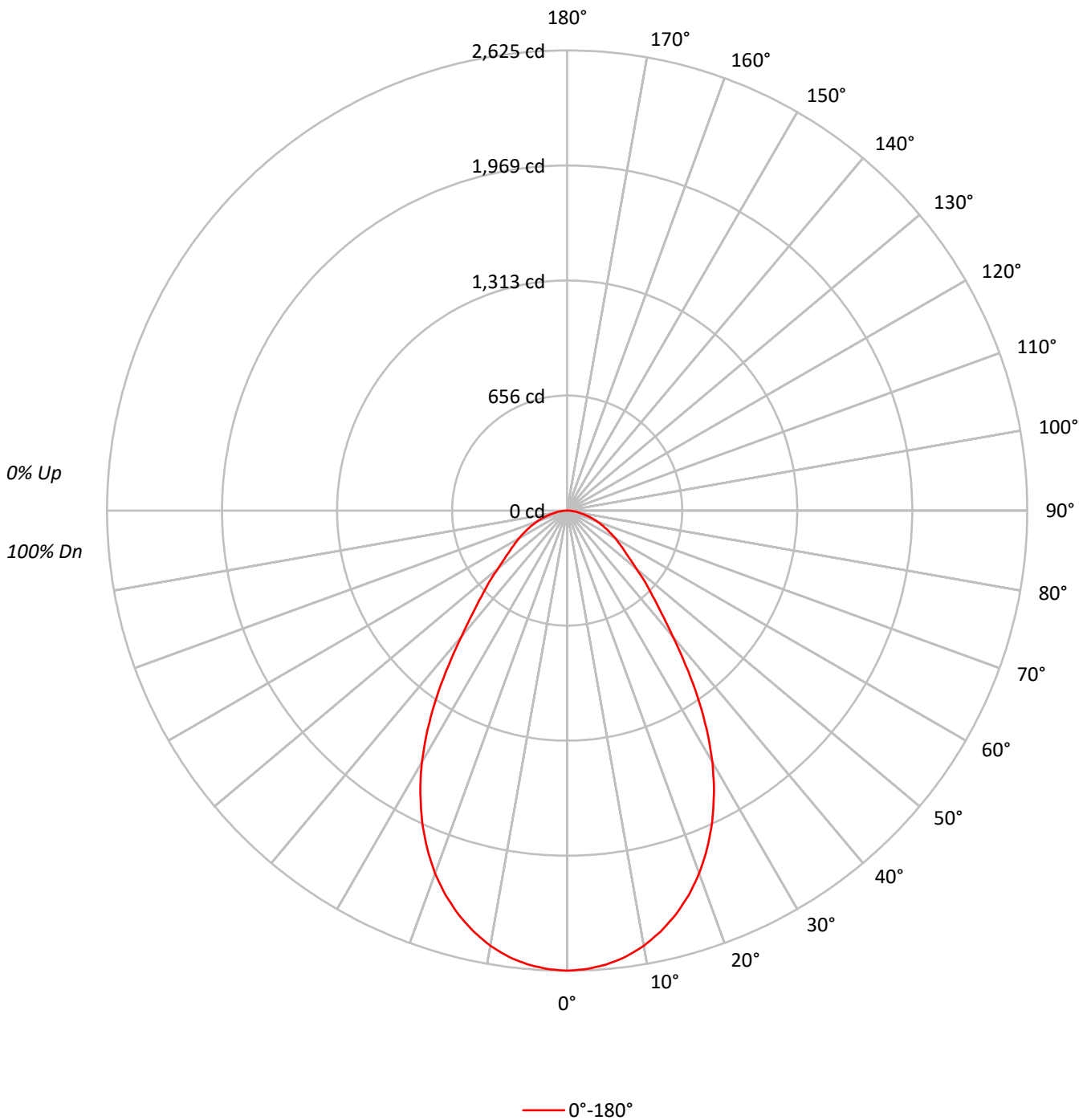
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	229590
5°	228140
10°	223921
15°	216282
20°	205025
25°	189057
30°	167399
35°	138590
40°	106876
45°	85353
50°	69931
55°	60710
60°	55701
65°	50935
70°	46878
75°	40757
80°	36469
85°	29004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	6.3
10°-20°	669.5	17.0
20°-30°	894.0	22.8
30°-40°	805.5	20.5
40°-50°	541.0	13.8
50°-60°	361.1	9.2
60°-70°	244.6	6.2
70°-80°	130.4	3.3
80°-90°	35.4	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°	1809.2	46.1
0°-40°	2614.6	66.6
0°-60°	3516.7	89.5
0°-90°	3927.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3927.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2625	
5°	2598	246
15°	2388	670
25°	1959	894
35°	1298	805
45°	690	541
55°	398	361
65°	246	245
75°	121	130
85°	29	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2624.8
2.5°	2617.6
5°	2598.3
7.5°	2566.9
10°	2521.1
12.5°	2460.7
15°	2388.4
17.5°	2301.5
20°	2202.6
22.5°	2086.8
25°	1958.9
27.5°	1814.2
30°	1657.4
32.5°	1481.3
35°	1297.9
37.5°	1109.7
40°	936.0
42.5°	798.5
45°	690.0
47.5°	603.1
50°	513.9
52.5°	448.7
55°	398.1
57.5°	354.6
60°	318.4
62.5°	279.8
65°	246.1
67.5°	212.3
70°	183.3
72.5°	152.0
75°	120.6
77.5°	94.1
80°	72.4
82.5°	50.7
85°	28.9
87.5°	14.5
90°	0.0

(END OF REPORT)