

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: P345185

Luminaire Tested: **PR4FS12D010 PR4M12MD8FSMW 1500Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345185
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: PR4FS12D010 PR4M12MD8FSMW 1500Lm3500K
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: 1317.4 lumens
Efficiency: N/A
Efficacy: 99.1 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

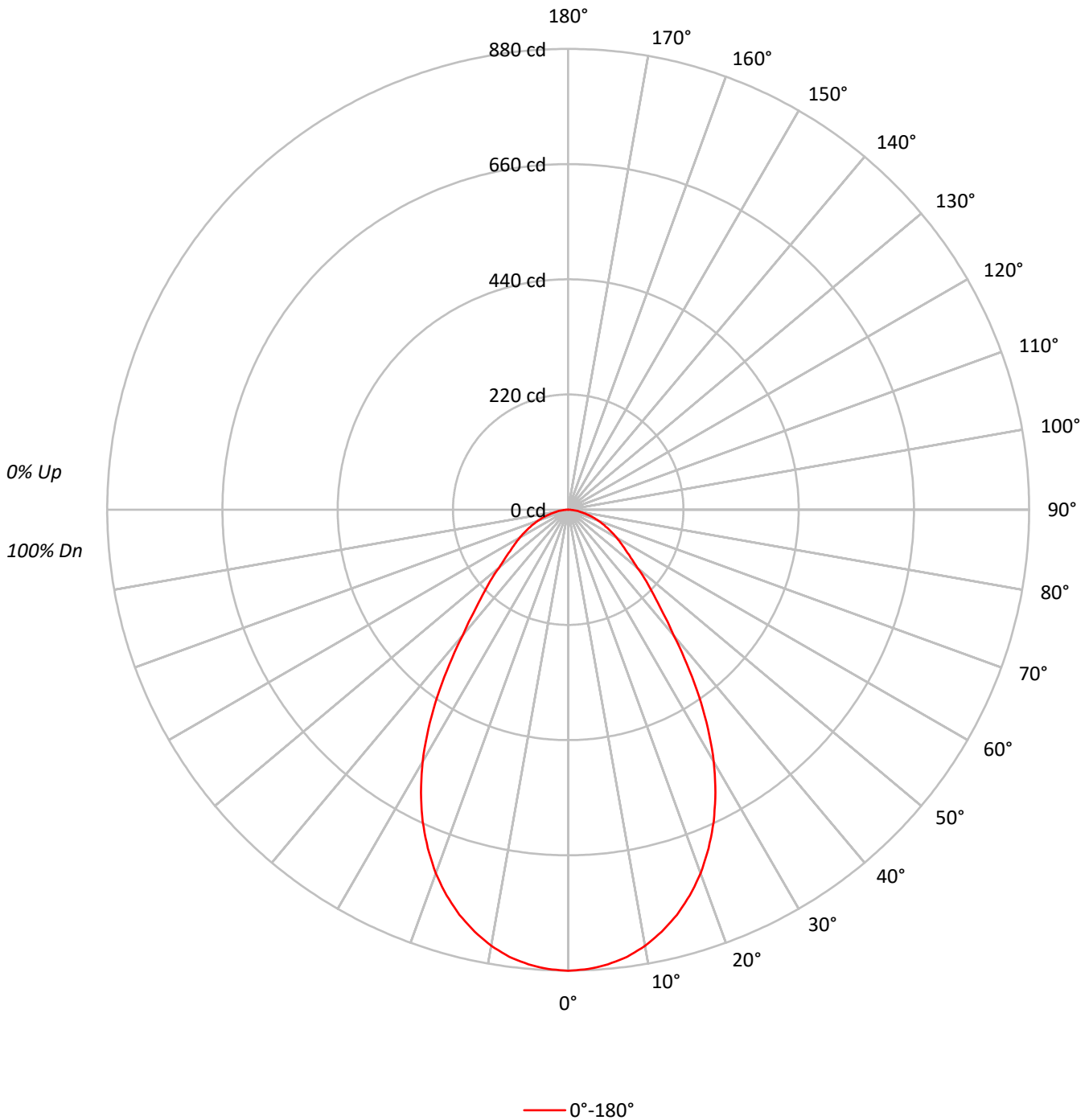
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	77017
5°	76530
10°	75114
15°	72553
20°	68779
25°	63428
30°	56157
35°	46492
40°	35854
45°	28637
50°	23460
55°	20359
60°	18683
65°	17075
70°	15728
75°	13687
80°	12240
85°	9735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	6.3
10°-20°	224.6	17.0
20°-30°	299.9	22.8
30°-40°	270.2	20.5
40°-50°	181.5	13.8
50°-60°	121.1	9.2
60°-70°	82.0	6.2
70°-80°	43.8	3.3
80°-90°	11.9	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°	606.9	46.1
0°-40°	877.1	66.6
0°-60°	1179.8	89.5
0°-90°	1317.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1317.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	880	
5°	872	82
15°	801	225
25°	657	300
35°	435	270
45°	232	181
55°	134	121
65°	82	82
75°	40	44
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	880.5
2.5°	878.1
5°	871.6
7.5°	861.1
10°	845.7
12.5°	825.5
15°	801.2
17.5°	772.1
20°	738.9
22.5°	700.0
25°	657.2
27.5°	608.6
30°	556.0
32.5°	496.9
35°	435.4
37.5°	372.3
40°	314.0
42.5°	267.9
45°	231.5
47.5°	202.3
50°	172.4
52.5°	150.5
55°	133.5
57.5°	119.0
60°	106.8
62.5°	93.9
65°	82.5
67.5°	71.2
70°	61.5
72.5°	51.0
75°	40.5
77.5°	31.6
80°	24.3
82.5°	17.0
85°	9.7
87.5°	4.9
90°	0.0

(END OF REPORT)