

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: P345220

Luminaire Tested: **PR4FS12D010 PR4M12MD8FSMMS 1500Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12MD8FSMMS 1500Lm3000K
Description: PR4 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1136.4 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.02
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

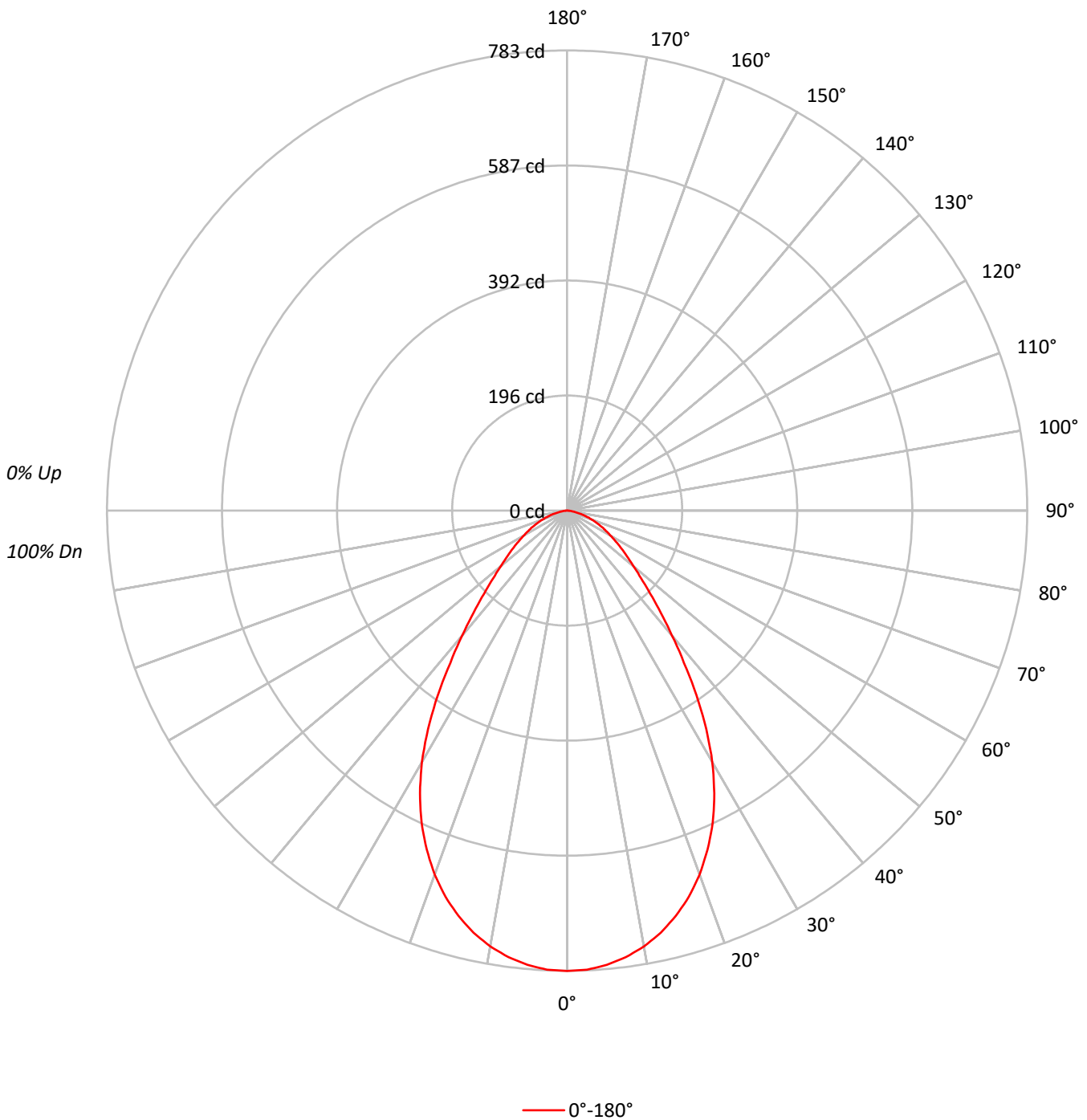
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73	68	65	63
5	84	74	66	61	82	73	66	60	71	65	60		69	63	59		67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54		64	58	54		62	57	53	52
7	74	63	55	50	72	62	55	50	60	54	49		59	53	49		58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45		55	49	45		54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42		51	46	42		51	45	42	40
10	62	50	44	39	61	50	43	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	68524
5°	68127
10°	66872
15°	64674
20°	61351
25°	56575
30°	49895
35°	40993
40°	31686
45°	24752
50°	20044
55°	17248
60°	14975
65°	13246
70°	11406
75°	9057
80°	6347
85°	3713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	6.5
10°-20°	200.3	17.6
20°-30°	267.3	23.5
30°-40°	238.6	21.0
40°-50°	157.1	13.8
50°-60°	101.9	9.0
60°-70°	63.5	5.6
70°-80°	29.1	2.6
80°-90°	5.3	0.5
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°	540.9	47.6
0°-40°	779.5	68.6
0°-60°	1038.5	91.4
0°-90°	1136.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	783	
5°	776	73
15°	714	200
25°	586	267
35°	384	239
45°	200	157
55°	113	102
65°	64	64
75°	27	29
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	783.4
2.5°	781.9
5°	775.9
7.5°	766.3
10°	752.9
12.5°	735.8
15°	714.2
17.5°	688.9
20°	659.1
22.5°	624.2
25°	586.2
27.5°	542.3
30°	494.0
32.5°	440.4
35°	383.9
37.5°	326.6
40°	277.5
42.5°	235.8
45°	200.1
47.5°	170.4
50°	147.3
52.5°	128.7
55°	113.1
57.5°	98.2
60°	85.6
62.5°	74.4
65°	64.0
67.5°	53.6
70°	44.6
72.5°	35.7
75°	26.8
77.5°	19.3
80°	12.6
82.5°	7.4
85°	3.7
87.5°	2.2
90°	0.0

(END OF REPORT)