

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: P345329

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSMMS 1500Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12WD8FSMMS 1500Lm3500K
Description: PR4 WIDE LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1253.5 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.65 / 1.65 / 1.6
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

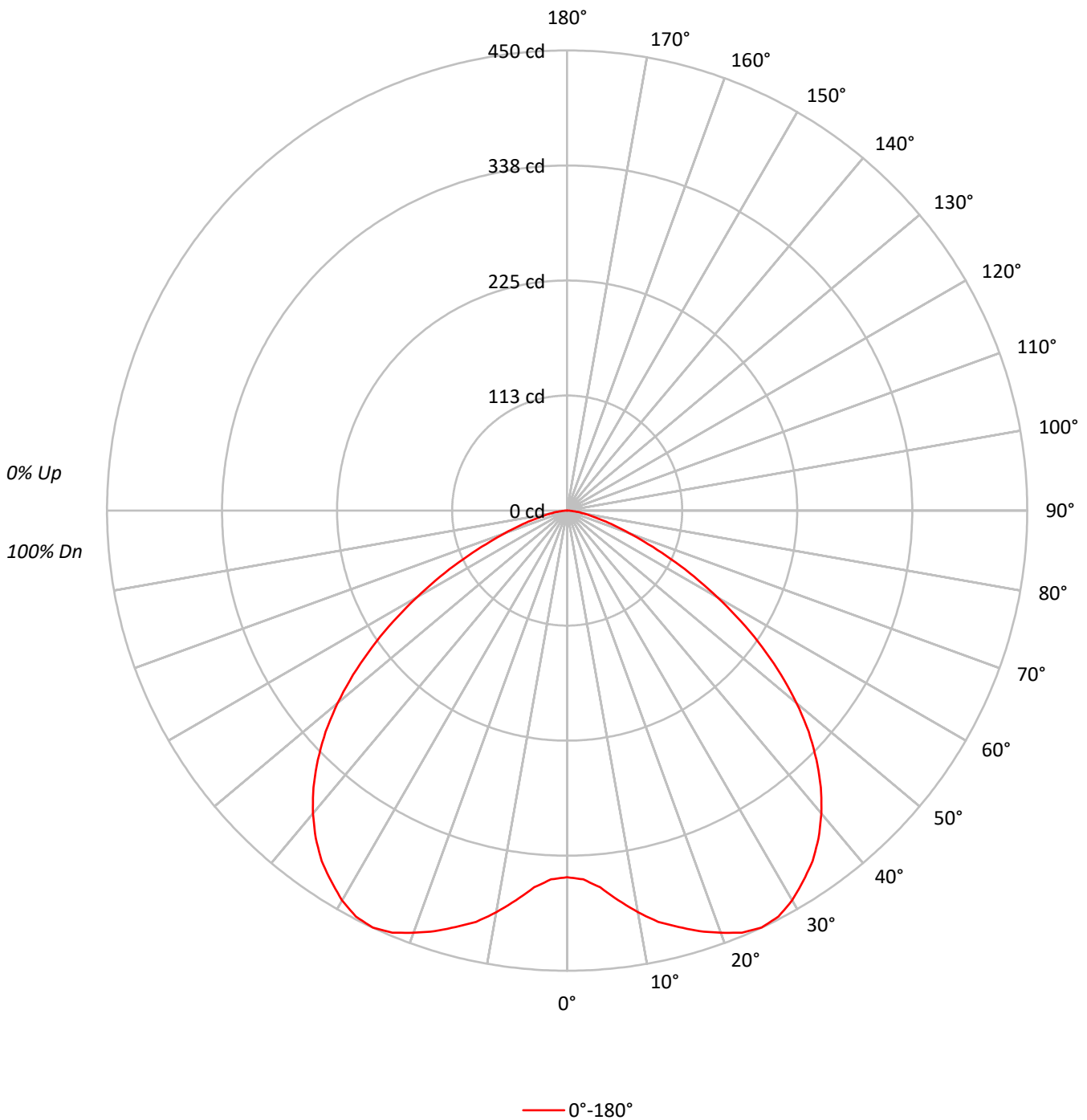
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31358
5°	32470
10°	35430
15°	38178
20°	40901
25°	43421
30°	44461
35°	44677
40°	44166
45°	42640
50°	39857
55°	35532
60°	29722
65°	23119
70°	16547
75°	11491
80°	8160
85°	5721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	2.9
10°-20°	119.9	9.6
20°-30°	206.4	16.5
30°-40°	260.9	20.8
40°-50°	264.7	21.1
50°-60°	207.5	16.6
60°-70°	112.2	8.9
70°-80°	38.3	3.1
80°-90°	7.3	0.6
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°	362.6	28.9
0°-40°	623.5	49.7
0°-60°	1095.7	87.4
0°-90°	1253.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1253.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	358	
5°	370	36
15°	422	120
25°	450	206
35°	418	261
45°	345	265
55°	233	207
65°	112	112
75°	34	38
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	358.5
2.5°	360.9
5°	369.8
7.5°	384.4
10°	398.9
12.5°	411.9
15°	421.6
17.5°	431.3
20°	439.4
22.5°	446.7
25°	449.9
27.5°	447.5
30°	440.2
32.5°	429.7
35°	418.4
37.5°	403.8
40°	386.8
42.5°	367.4
45°	344.7
47.5°	320.4
50°	292.9
52.5°	263.8
55°	233.0
57.5°	201.5
60°	169.9
62.5°	140.0
65°	111.7
67.5°	85.8
70°	64.7
72.5°	47.7
75°	34.0
77.5°	23.5
80°	16.2
82.5°	10.5
85°	5.7
87.5°	2.4
90°	0.0

(END OF REPORT)