

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: P345356

Luminaire Tested: **PR4FS24D010 PR4M24WD9FSMMS 4000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345356
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: PR4FS24D010 PR4M24WD9FSMMS 4000Lm3500K
Description: PR4 WIDE LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3196.2 lumens
Efficiency: N/A
Efficacy: 82.0 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

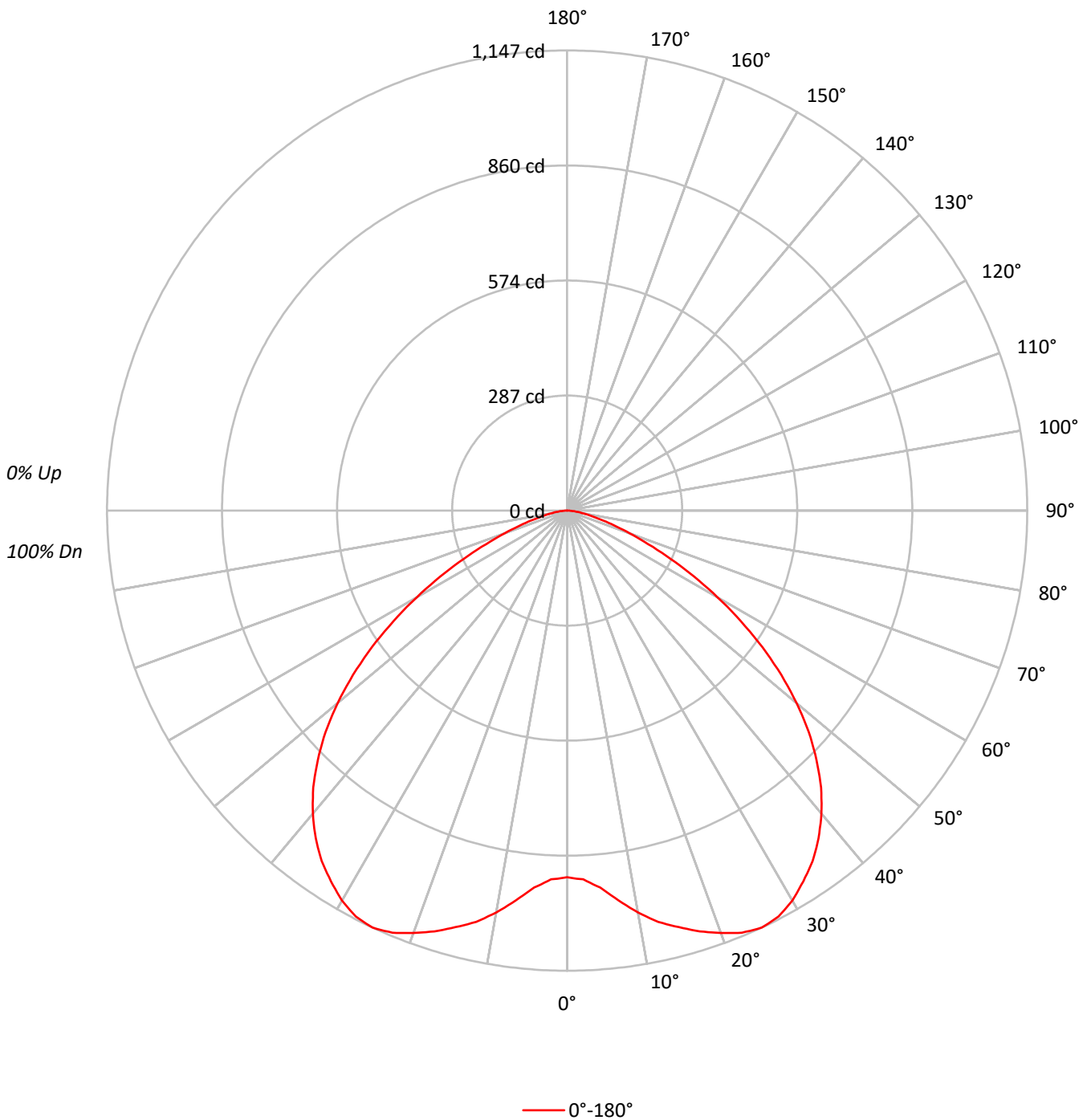
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	79956
5°	82790
10°	90346
15°	97347
20°	104290
25°	110718
30°	113374
35°	113903
40°	112619
45°	108733
50°	101637
55°	90615
60°	75801
65°	58924
70°	42223
75°	29301
80°	20803
85°	14452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	2.9
10°-20°	305.8	9.6
20°-30°	526.4	16.5
30°-40°	665.2	20.8
40°-50°	675.0	21.1
50°-60°	529.0	16.6
60°-70°	286.0	8.9
70°-80°	97.7	3.1
80°-90°	18.5	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°	924.7	28.9
0°-40°	1589.9	49.7
0°-60°	2794.0	87.4
0°-90°	3196.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3196.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	914	
5°	943	93
15°	1075	306
25°	1147	526
35°	1067	665
45°	879	675
55°	594	529
65°	285	286
75°	87	98
85°	14	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	914.1
2.5°	920.2
5°	942.9
7.5°	980.1
10°	1017.2
12.5°	1050.2
15°	1075.0
17.5°	1099.8
20°	1120.4
22.5°	1139.0
25°	1147.2
27.5°	1141.0
30°	1122.5
32.5°	1095.6
35°	1066.7
37.5°	1029.6
40°	986.3
42.5°	936.8
45°	879.0
47.5°	817.1
50°	746.9
52.5°	672.6
55°	594.2
57.5°	513.8
60°	433.3
62.5°	357.0
65°	284.7
67.5°	218.7
70°	165.1
72.5°	121.7
75°	86.7
77.5°	59.8
80°	41.3
82.5°	26.8
85°	14.4
87.5°	6.2
90°	0.0

(END OF REPORT)