

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: P345357

Luminaire Tested: **PR4FS24D010 PR4M24WD9FSMMS 4000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345357
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 4000Lm4000K
Description: PR4 WIDE LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3045.9 lumens
Efficiency: N/A
Efficacy: 67.7 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

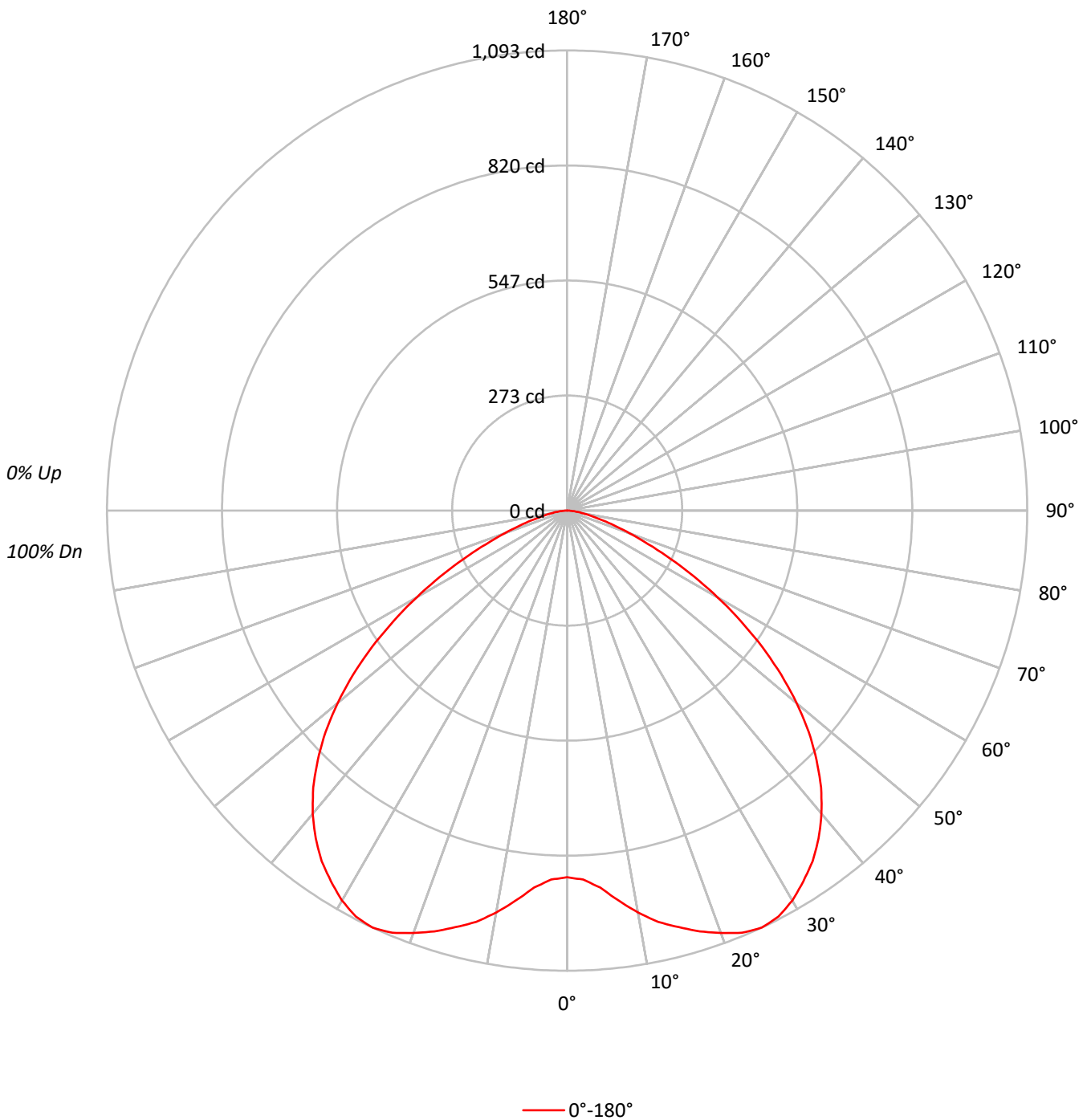
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	76186
5°	78900
10°	86101
15°	92765
20°	99385
25°	105507
30°	108031
35°	108553
40°	107321
45°	103612
50°	96861
55°	86360
60°	72232
65°	56151
70°	40228
75°	27915
80°	19796
85°	13850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	2.9
10°-20°	291.4	9.6
20°-30°	501.6	16.5
30°-40°	634.0	20.8
40°-50°	643.2	21.1
50°-60°	504.2	16.6
60°-70°	272.6	8.9
70°-80°	93.1	3.1
80°-90°	17.7	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°	881.2	28.9
0°-40°	1515.1	49.7
0°-60°	2662.5	87.4
0°-90°	3045.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3045.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	871	
5°	899	88
15°	1024	291
25°	1093	502
35°	1017	634
45°	838	643
55°	566	504
65°	271	273
75°	83	93
85°	14	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	871.0
2.5°	876.9
5°	898.6
7.5°	934.0
10°	969.4
12.5°	1000.8
15°	1024.4
17.5°	1048.0
20°	1067.7
22.5°	1085.4
25°	1093.2
27.5°	1087.3
30°	1069.6
32.5°	1044.1
35°	1016.6
37.5°	981.2
40°	939.9
42.5°	892.7
45°	837.6
47.5°	778.6
50°	711.8
52.5°	641.0
55°	566.3
57.5°	489.6
60°	412.9
62.5°	340.2
65°	271.3
67.5°	208.4
70°	157.3
72.5°	116.0
75°	82.6
77.5°	57.0
80°	39.3
82.5°	25.6
85°	13.8
87.5°	5.9
90°	0.0

(END OF REPORT)