

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: P345348

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSMMS 3000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345348
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 PR4M24WD8FSMMS 3000Lm4000K
Description: PR4 WIDE LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2500.3 lumens
Efficiency: N/A
Efficacy: 87.7 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

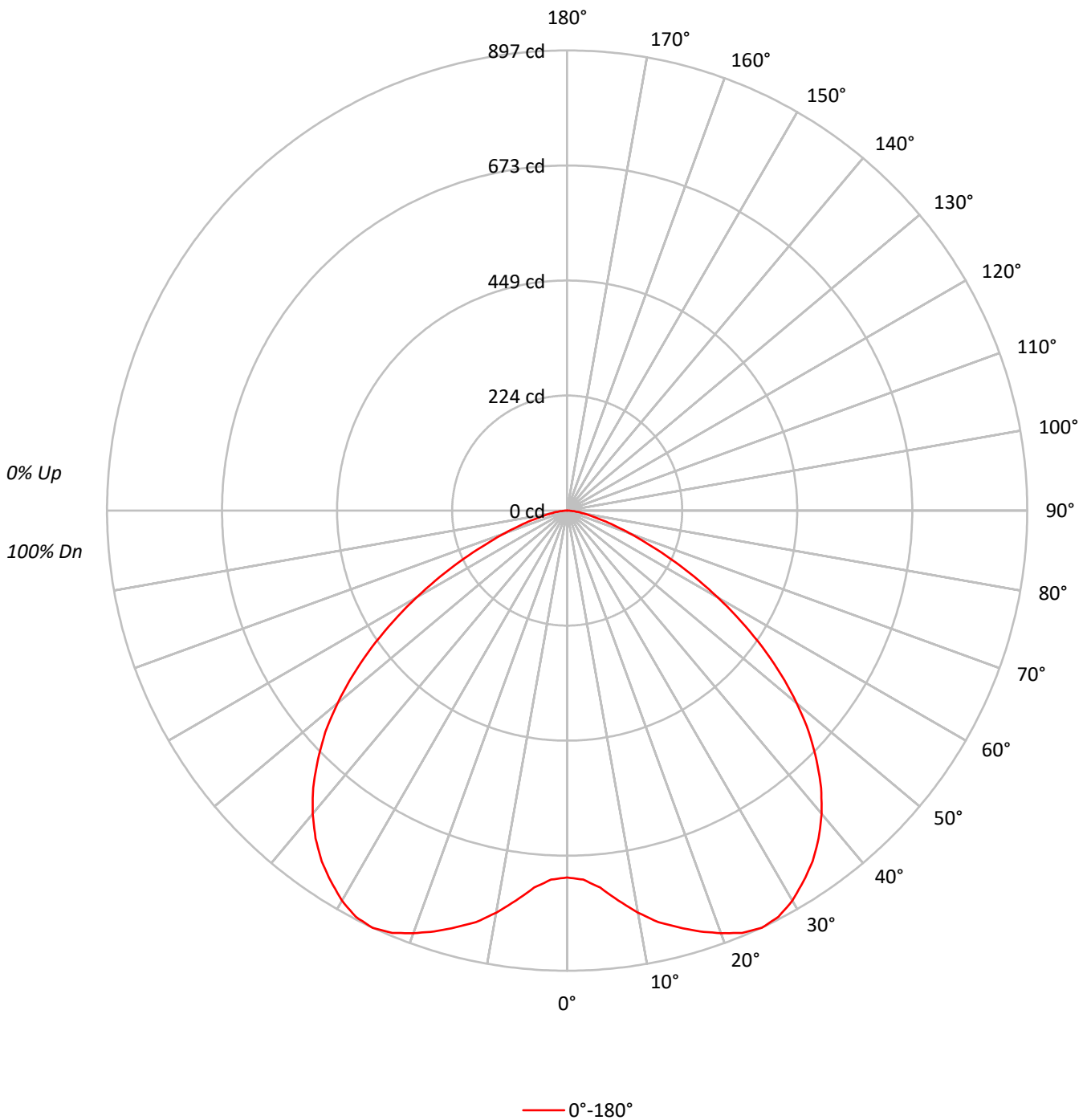
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	62549
5°	64764
10°	70682
15°	76157
20°	81587
25°	86610
30°	88689
35°	89108
40°	88092
45°	85056
50°	79511
55°	70896
60°	59304
65°	46092
70°	33016
75°	22913
80°	16270
85°	11341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	2.9
10°-20°	239.2	9.6
20°-30°	411.8	16.5
30°-40°	520.4	20.8
40°-50°	528.0	21.1
50°-60°	413.9	16.6
60°-70°	223.7	8.9
70°-80°	76.5	3.1
80°-90°	14.5	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°	723.4	28.9
0°-40°	1243.8	49.7
0°-60°	2185.7	87.4
0°-90°	2500.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2500.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	715	
5°	738	72
15°	841	239
25°	897	412
35°	834	520
45°	688	528
55°	465	414
65°	223	224
75°	68	76
85°	11	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	715.1
2.5°	719.9
5°	737.6
7.5°	766.7
10°	795.8
12.5°	821.6
15°	841.0
17.5°	860.3
20°	876.5
22.5°	891.0
25°	897.4
27.5°	892.6
30°	878.1
32.5°	857.1
35°	834.5
37.5°	805.4
40°	771.5
42.5°	732.8
45°	687.6
47.5°	639.2
50°	584.3
52.5°	526.2
55°	464.9
57.5°	401.9
60°	339.0
62.5°	279.2
65°	222.7
67.5°	171.1
70°	129.1
72.5°	95.2
75°	67.8
77.5°	46.8
80°	32.3
82.5°	21.0
85°	11.3
87.5°	4.8
90°	0.0

(END OF REPORT)