

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: P345311

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSMW 3000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24WD8FSMW 3000Lm3500K
Description: PR4 WIDE LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2790.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.61 / 1.61 / 1.58
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

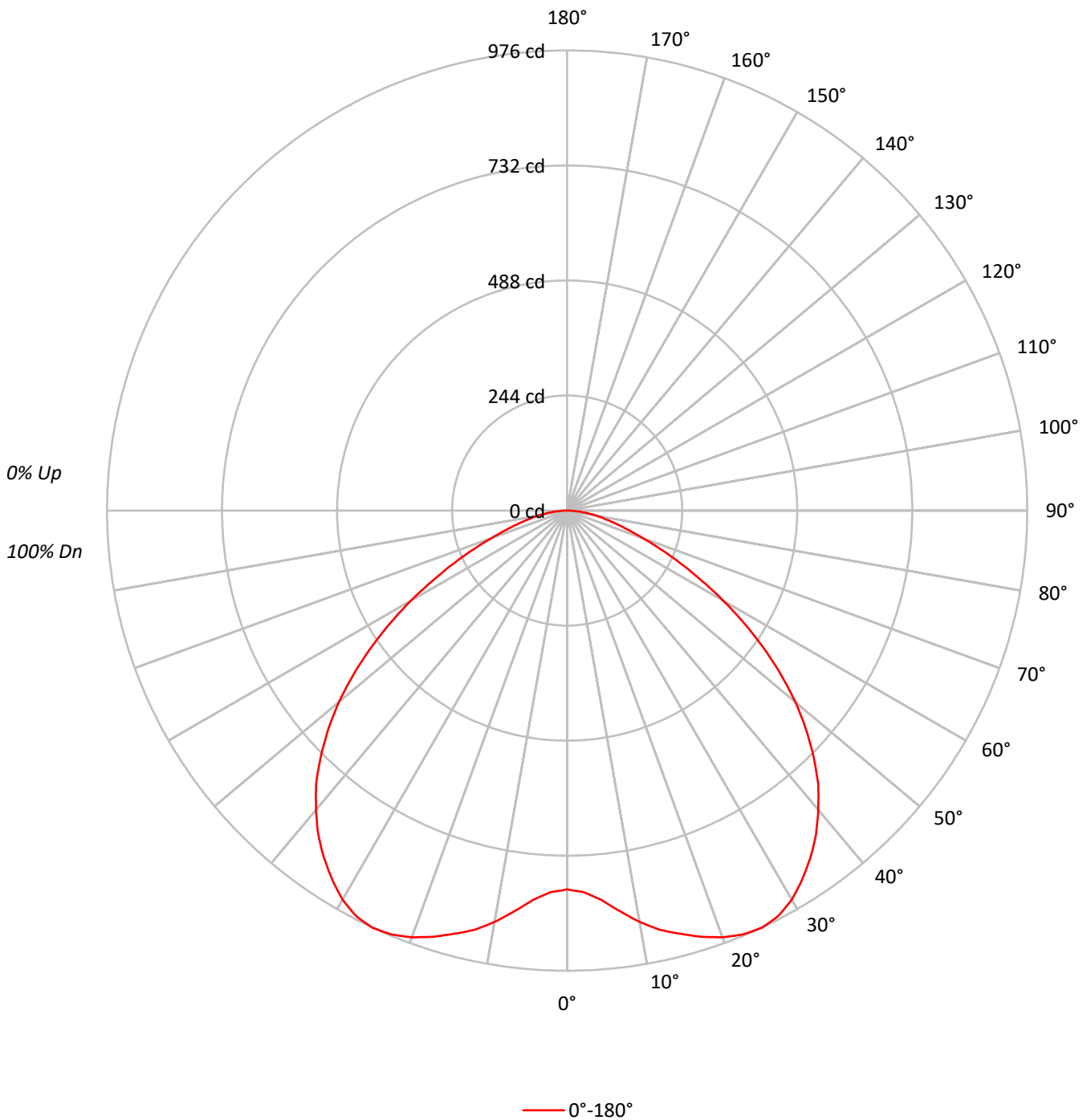
Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	100	96	99	96	93		95	93	90		91	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	54	49		58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43		54	48	43		53	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	32
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	70273
5°	72754
10°	78667
15°	84162
20°	89639
25°	94244
30°	96244
35°	96017
40°	94612
45°	91477
50°	85988
55°	77652
60°	67037
65°	54951
70°	43834
75°	35790
80°	32187
85°	26997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	2.9
10°-20°	264.2	9.5
20°-30°	448.5	16.1
30°-40°	561.5	20.1
40°-50°	568.2	20.4
50°-60°	454.0	16.3
60°-70°	266.4	9.5
70°-80°	116.1	4.2
80°-90°	31.1	1.1
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°	793.7	28.4
0°-40°	1355.2	48.6
0°-60°	2377.4	85.2
0°-90°	2790.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2790.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	803	
5°	829	81
15°	929	264
25°	976	449
35°	899	561
45°	740	568
55°	509	454
65°	266	266
75°	106	116
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	803.4
2.5°	810.1
5°	828.6
7.5°	857.1
10°	885.7
12.5°	910.9
15°	929.4
17.5°	947.9
20°	963.0
22.5°	973.1
25°	976.5
27.5°	969.7
30°	952.9
32.5°	927.7
35°	899.2
37.5°	867.2
40°	828.6
42.5°	788.2
45°	739.5
47.5°	687.4
50°	631.9
52.5°	571.4
55°	509.2
57.5°	445.4
60°	383.2
62.5°	321.0
65°	265.5
67.5°	215.1
70°	171.4
72.5°	134.5
75°	105.9
77.5°	82.4
80°	63.9
82.5°	45.4
85°	26.9
87.5°	10.1
90°	0.0

(END OF REPORT)