

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: P345241

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSMMS 3000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24MD9FSMMS 3000Lm3000K
Description: PR4 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2006.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.02
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

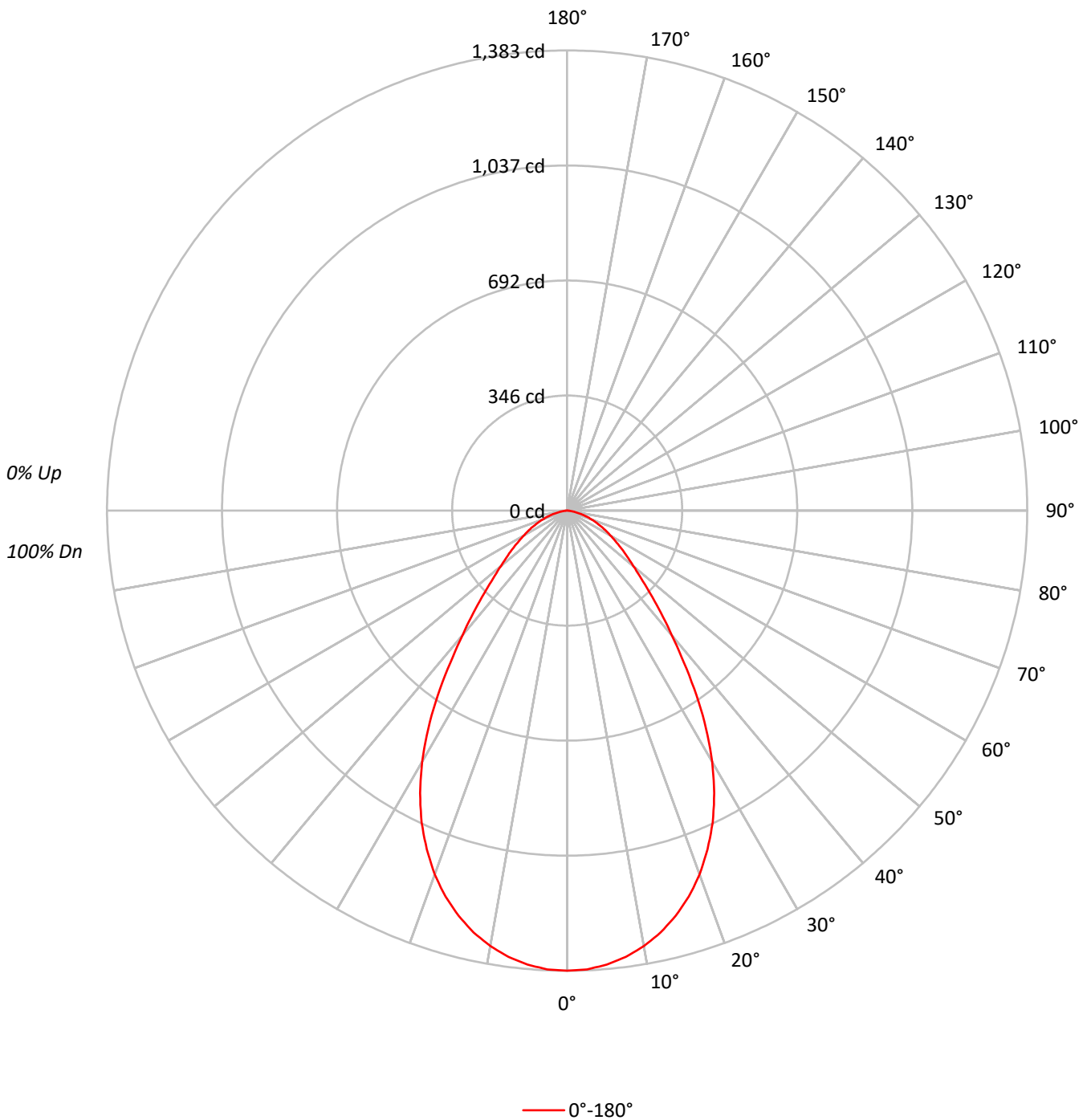
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73	68	65	63
5	84	74	66	61	82	73	66	60	71	65	60		69	63	59		67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54		64	58	54		62	57	53	52
7	74	63	55	50	72	62	55	50	60	54	49		59	53	49		58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45		55	49	45		54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42		51	46	42		51	45	42	40
10	62	50	44	39	61	50	43	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	120953
5°	120256
10°	118031
15°	114163
20°	108302
25°	99870
30°	88073
35°	72354
40°	55927
45°	43691
50°	35380
55°	30439
60°	26416
65°	23367
70°	20153
75°	15985
80°	11233
85°	6624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	6.5
10°-20°	353.5	17.6
20°-30°	471.9	23.5
30°-40°	421.2	21.0
40°-50°	277.3	13.8
50°-60°	179.8	9.0
60°-70°	112.1	5.6
70°-80°	51.3	2.6
80°-90°	9.5	0.5
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°	954.8	47.6
0°-40°	1376.0	68.6
0°-60°	1833.1	91.4
0°-90°	2006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1383	
5°	1370	129
15°	1261	353
25°	1035	472
35°	678	421
45°	353	277
55°	200	180
65°	113	112
75°	47	51
85°	7	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1382.8
2.5°	1380.1
5°	1369.6
7.5°	1352.6
10°	1328.9
12.5°	1298.7
15°	1260.7
17.5°	1216.0
20°	1163.5
22.5°	1101.8
25°	1034.8
27.5°	957.3
30°	872.0
32.5°	777.4
35°	677.6
37.5°	576.5
40°	489.8
42.5°	416.3
45°	353.2
47.5°	300.7
50°	260.0
52.5°	227.2
55°	199.6
57.5°	173.3
60°	151.0
62.5°	131.3
65°	112.9
67.5°	94.5
70°	78.8
72.5°	63.0
75°	47.3
77.5°	34.1
80°	22.3
82.5°	13.1
85°	6.6
87.5°	3.9
90°	0.0

(END OF REPORT)