

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: P345321

Luminaire Tested: **PR4FS24D010 PR4M24WD9FSMW 4000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345321
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 PR4M24WD9FSMW 4000Lm4000K
Description: PR4 WIDE LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3264.1 lumens
Efficiency: N/A
Efficacy: 72.5 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

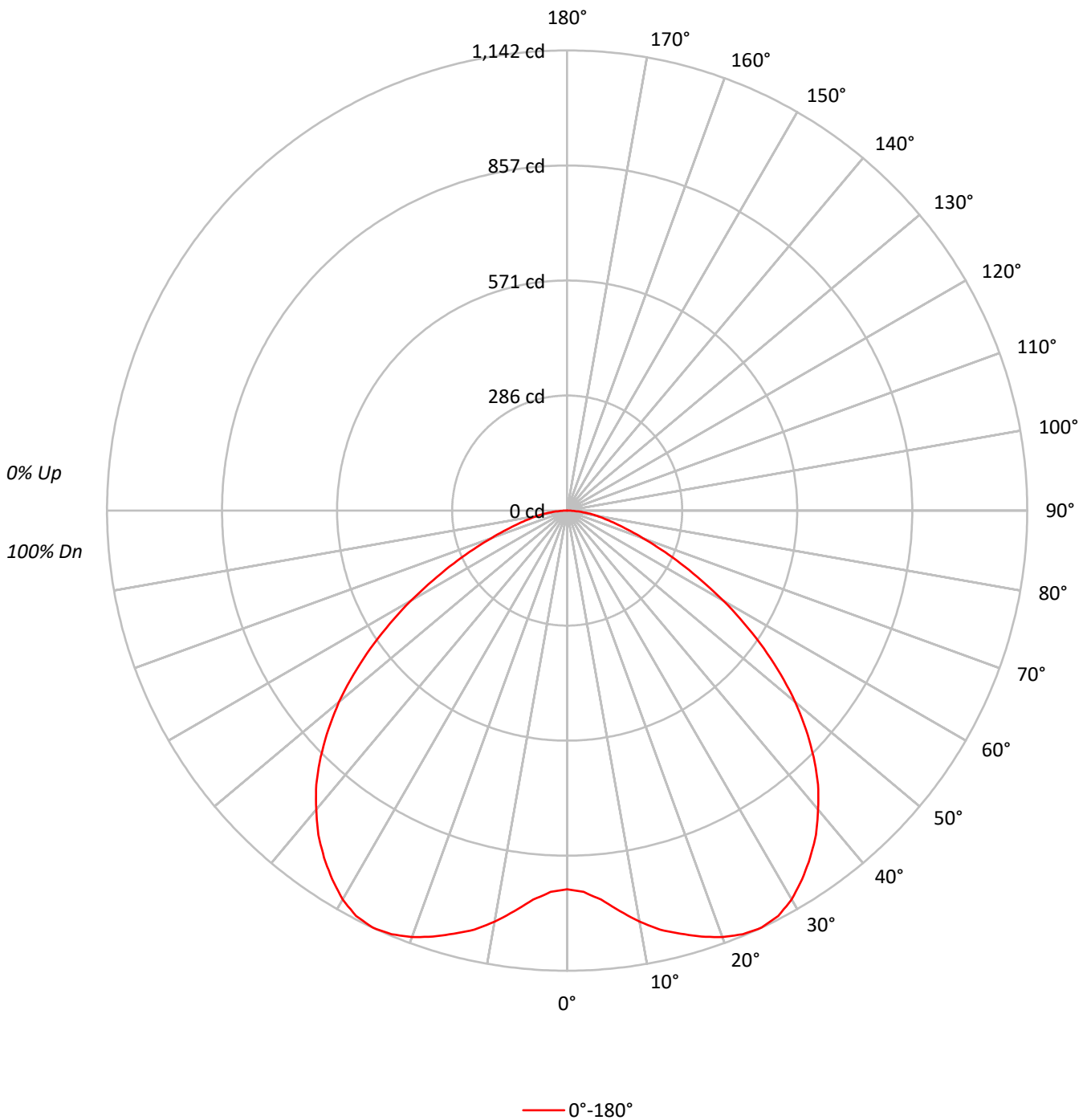
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	82186
5°	85090
10°	92007
15°	98433
20°	104839
25°	110217
30°	112566
35°	112290
40°	110655
45°	106989
50°	100575
55°	90828
60°	78408
65°	64285
70°	51277
75°	41839
80°	37628
85°	31513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	2.9
10°-20°	309.0	9.5
20°-30°	524.6	16.1
30°-40°	656.7	20.1
40°-50°	664.5	20.4
50°-60°	531.0	16.3
60°-70°	311.6	9.5
70°-80°	135.7	4.2
80°-90°	36.4	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
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0°-30°	928.3	28.4
0°-40°	1585.0	48.6
0°-60°	2780.5	85.2
0°-90°	3264.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3264.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	940	
5°	969	95
15°	1087	309
25°	1142	525
35°	1052	657
45°	865	664
55°	596	531
65°	311	312
75°	124	136
85°	31	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	939.6
2.5°	947.4
5°	969.1
7.5°	1002.5
10°	1035.9
12.5°	1065.4
15°	1087.0
17.5°	1108.6
20°	1126.3
22.5°	1138.1
25°	1142.0
27.5°	1134.2
30°	1114.5
32.5°	1085.0
35°	1051.6
37.5°	1014.3
40°	969.1
42.5°	921.9
45°	864.9
47.5°	803.9
50°	739.1
52.5°	668.3
55°	595.6
57.5°	520.9
60°	448.2
62.5°	375.4
65°	310.6
67.5°	251.6
70°	200.5
72.5°	157.2
75°	123.8
77.5°	96.3
80°	74.7
82.5°	53.1
85°	31.4
87.5°	11.8
90°	0.0

(END OF REPORT)