

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: P345279

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSBZ 3000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24MD9FSBZ 3000Lm4000K
Description: PR4 MEDIUM LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1859.7 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1/1/2001
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

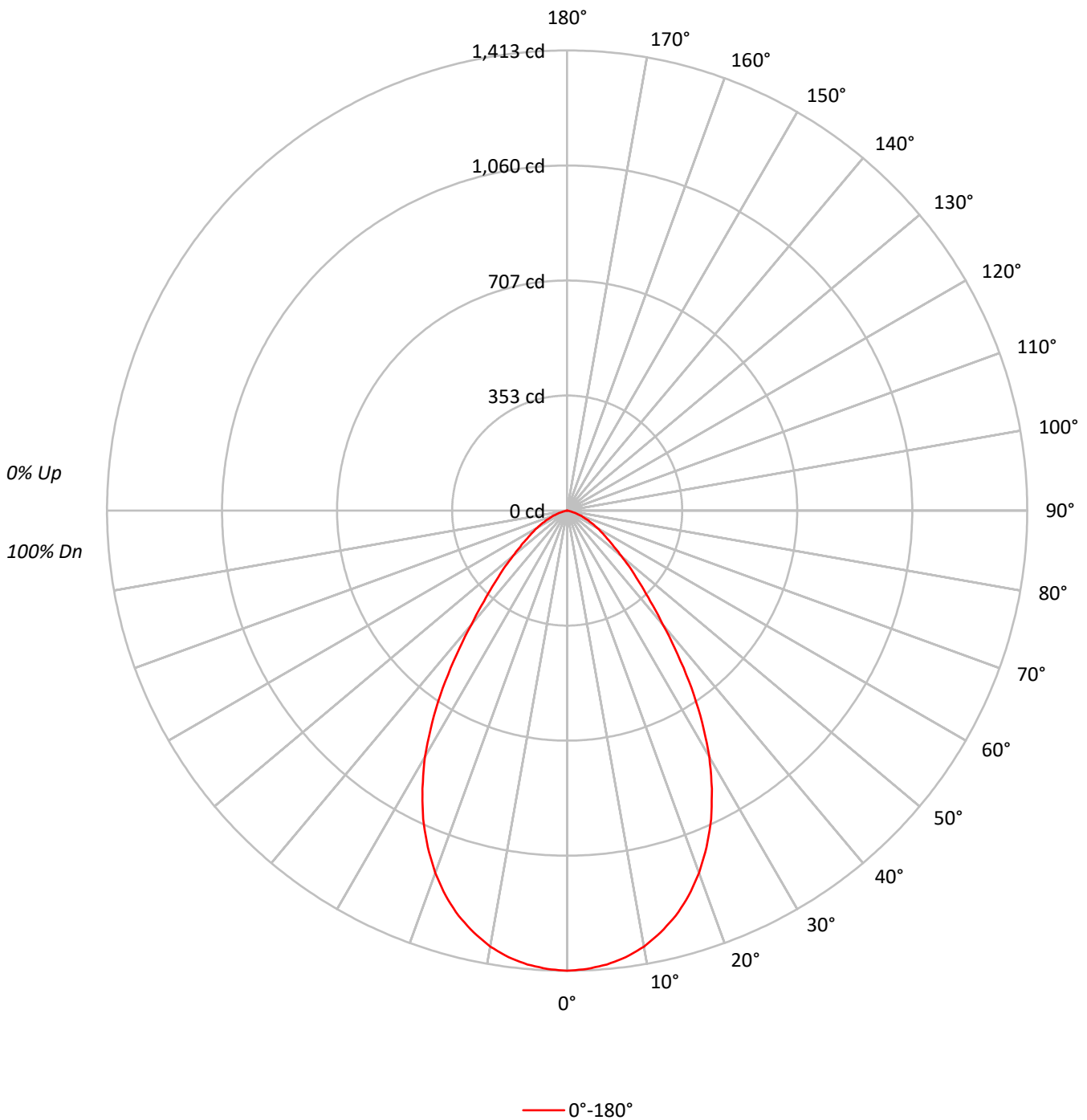
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	52	61	56	52	51
8	72	61	54	49	70	60	53	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	123586
5°	122855
10°	120749
15°	116653
20°	110220
25°	100913
30°	88174
35°	71116
40°	52262
45°	38990
50°	29461
55°	22981
60°	18701
65°	14467
70°	10511
75°	5103
80°	1360
85°	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	7.1
10°-20°	360.8	19.4
20°-30°	476.5	25.6
30°-40°	412.7	22.2
40°-50°	248.2	13.3
50°-60°	138.3	7.4
60°-70°	70.7	3.8
70°-80°	18.3	1.0
80°-90°	1.9	0.1
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°	969.6	52.1
0°-40°	1382.4	74.3
0°-60°	1768.9	95.1
0°-90°	1859.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1859.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1413	
5°	1399	132
15°	1288	361
25°	1046	477
35°	666	413
45°	315	248
55°	151	138
65°	70	71
75°	15	18
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1412.9
2.5°	1408.8
5°	1399.2
7.5°	1382.8
10°	1359.5
12.5°	1326.6
15°	1288.2
17.5°	1240.2
20°	1184.1
22.5°	1118.3
25°	1045.6
27.5°	962.0
30°	873.0
32.5°	771.6
35°	666.0
37.5°	557.8
40°	457.7
42.5°	378.2
45°	315.2
47.5°	264.5
50°	216.5
52.5°	180.9
55°	150.7
57.5°	127.4
60°	106.9
62.5°	87.7
65°	69.9
67.5°	54.8
70°	41.1
72.5°	27.4
75°	15.1
77.5°	5.5
80°	2.7
82.5°	2.7
85°	1.4
87.5°	1.4
90°	0.0

(END OF REPORT)