

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: P345204

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSMW 3000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24MD8FSMW 3000Lm4000K
Description: PR4 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2628.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.02
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

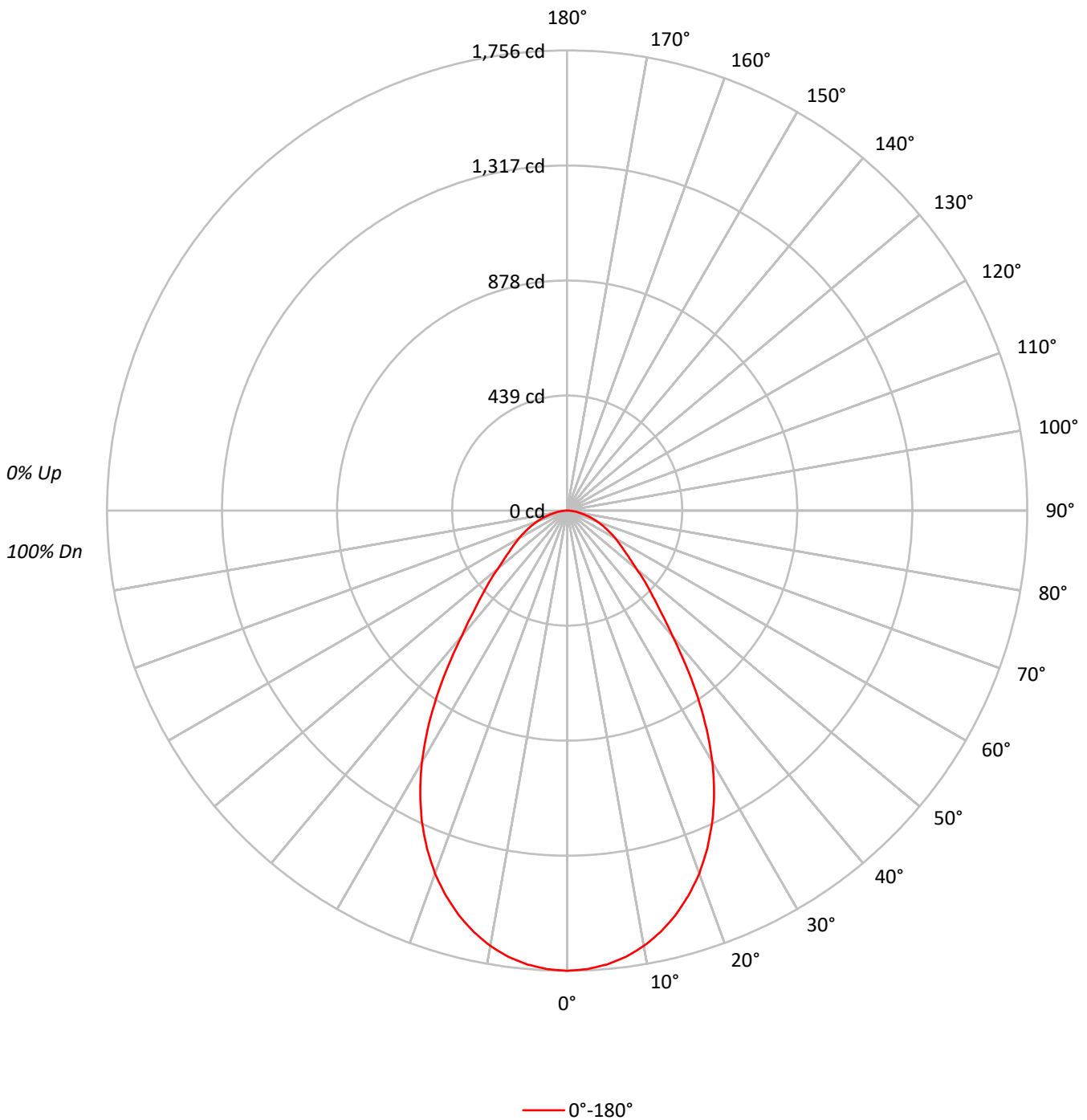
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	73	65	59	81	72	64	59	70	63	59	68	62	58	66	61	57	56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46
8	69	57	50	45	67	56	49	44	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	51	45	41	50	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	153631
5°	152655
10°	149837
15°	144725
20°	137195
25°	126508
30°	112010
35°	92739
40°	71524
45°	57113
50°	46797
55°	40626
60°	37279
65°	34088
70°	31380
75°	27273
80°	24380
85°	19470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	6.3
10°-20°	448.0	17.0
20°-30°	598.2	22.8
30°-40°	539.0	20.5
40°-50°	362.0	13.8
50°-60°	241.7	9.2
60°-70°	163.7	6.2
70°-80°	87.2	3.3
80°-90°	23.7	0.9
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°	1210.6	46.1
0°-40°	1749.6	66.6
0°-60°	2353.3	89.5
0°-90°	2628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2628.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1756	
5°	1739	164
15°	1598	448
25°	1311	598
35°	868	539
45°	462	362
55°	266	242
65°	165	164
75°	81	87
85°	19	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1756.4
2.5°	1751.6
5°	1738.6
7.5°	1717.7
10°	1687.0
12.5°	1646.6
15°	1598.2
17.5°	1540.1
20°	1473.9
22.5°	1396.4
25°	1310.8
27.5°	1214.0
30°	1109.0
32.5°	991.2
35°	868.5
37.5°	742.6
40°	626.4
42.5°	534.3
45°	461.7
47.5°	403.6
50°	343.9
52.5°	300.3
55°	266.4
57.5°	237.3
60°	213.1
62.5°	187.3
65°	164.7
67.5°	142.1
70°	122.7
72.5°	101.7
75°	80.7
77.5°	63.0
80°	48.4
82.5°	33.9
85°	19.4
87.5°	9.7
90°	0.0

(END OF REPORT)