

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: P345202

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSMW 3000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345202
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 3000Lm3000K
Description: PR4 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2464.5 lumens
Efficiency: N/A
Efficacy: 86.5 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

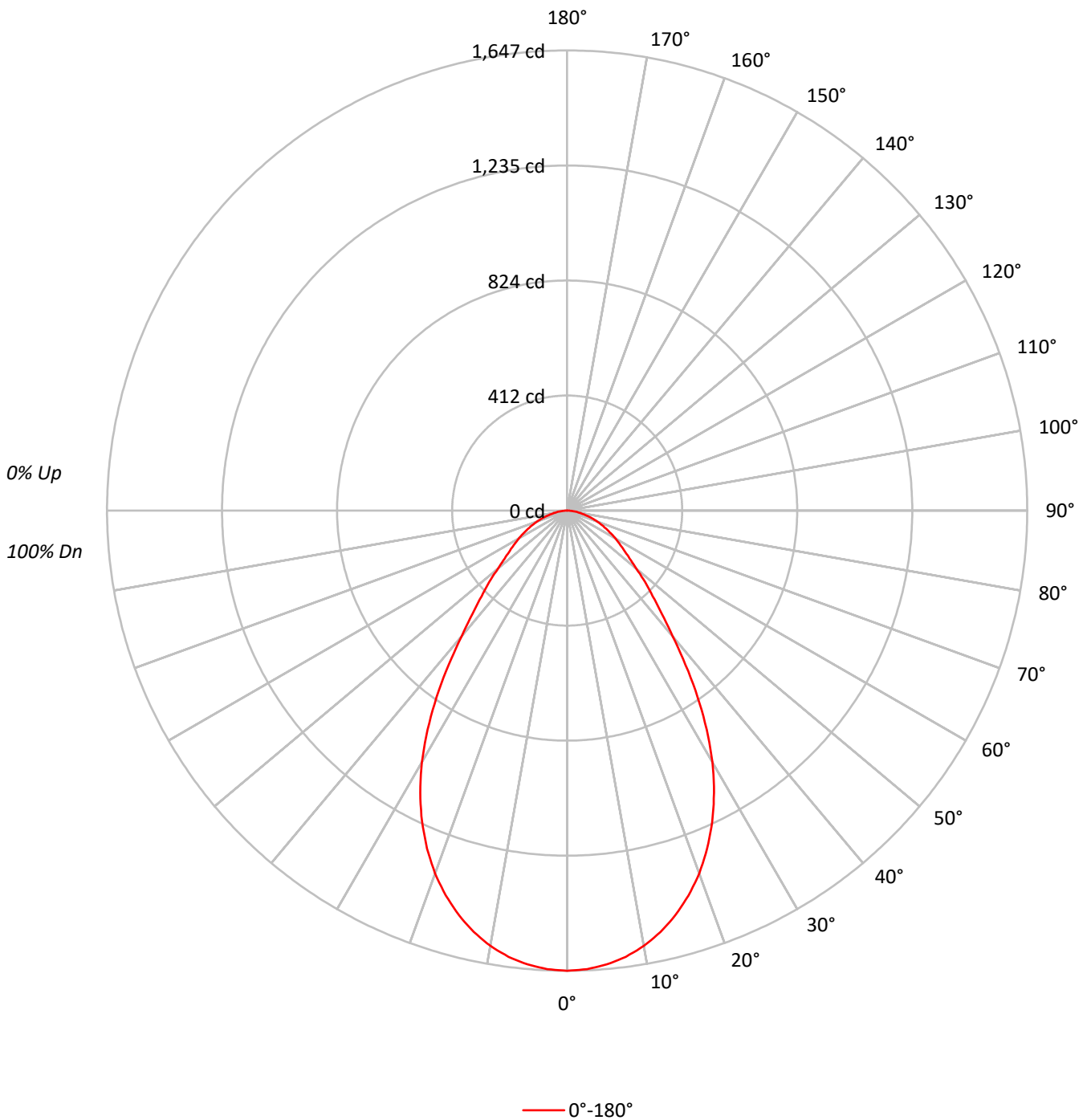
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	144080
5°	143172
10°	140520
15°	135724
20°	128669
25°	118642
30°	105051
35°	86973
40°	67071
45°	53562
50°	43885
55°	38094
60°	34953
65°	31956
70°	29436
75°	25583
80°	22869
85°	18266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	6.3
10°-20°	420.2	17.0
20°-30°	561.1	22.8
30°-40°	505.5	20.5
40°-50°	339.5	13.8
50°-60°	226.7	9.2
60°-70°	153.5	6.2
70°-80°	81.8	3.3
80°-90°	22.3	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°	1135.3	46.1
0°-40°	1640.8	66.6
0°-60°	2207.0	89.6
0°-90°	2464.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1647	
5°	1631	154
15°	1499	420
25°	1229	561
35°	814	505
45°	433	339
55°	250	227
65°	154	153
75°	76	82
85°	18	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1647.2
2.5°	1642.7
5°	1630.6
7.5°	1610.9
10°	1582.1
12.5°	1544.3
15°	1498.8
17.5°	1444.3
20°	1382.3
22.5°	1309.6
25°	1229.3
27.5°	1138.5
30°	1040.1
32.5°	929.6
35°	814.5
37.5°	696.4
40°	587.4
42.5°	501.1
45°	433.0
47.5°	378.5
50°	322.5
52.5°	281.6
55°	249.8
57.5°	222.6
60°	199.8
62.5°	175.6
65°	154.4
67.5°	133.2
70°	115.1
72.5°	95.4
75°	75.7
77.5°	59.0
80°	45.4
82.5°	31.8
85°	18.2
87.5°	9.1
90°	0.0

(END OF REPORT)