

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: P345192

Luminaire Tested: **PR4FS12D010 PR4M12MD8FSMW 2000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345192
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: PR4FS12D010 PR4M12MD8FSMW 2000Lm4000K
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: 2084.2 lumens
Efficiency: N/A
Efficacy: 100.7 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

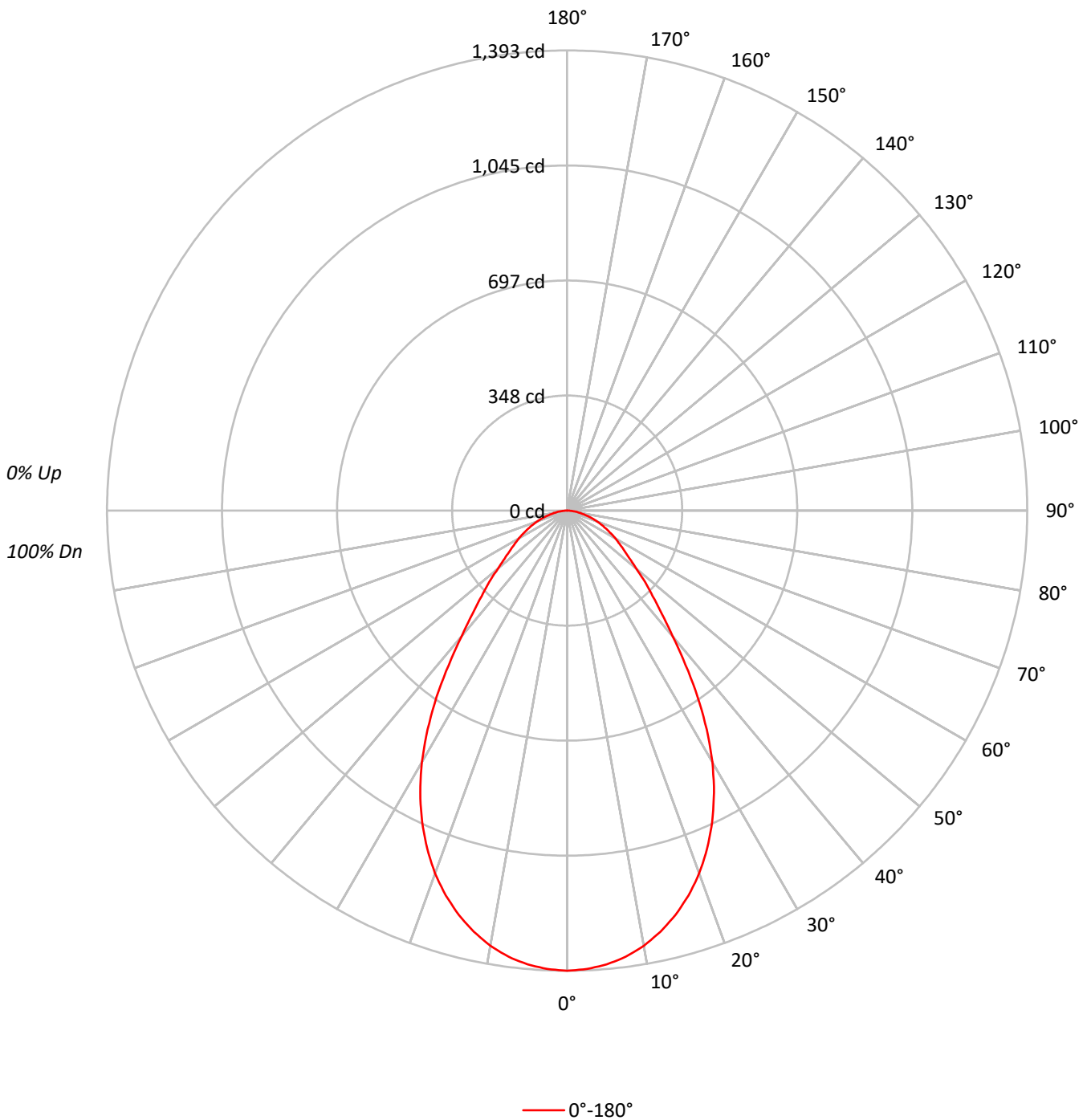
Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	121845
5°	121072
10°	118831
15°	114779
20°	108805
25°	100334
30°	88840
35°	73550
40°	56726
45°	45299
50°	37109
55°	32208
60°	29565
65°	27030
70°	24884
75°	21629
80°	19343
85°	15455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	6.3
10°-20°	355.3	17.0
20°-30°	474.5	22.8
30°-40°	427.5	20.5
40°-50°	287.1	13.8
50°-60°	191.6	9.2
60°-70°	129.8	6.2
70°-80°	69.2	3.3
80°-90°	18.8	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
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0°-30°	960.1	46.1
0°-40°	1387.6	66.6
0°-60°	1866.3	89.5
0°-90°	2084.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2084.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1393	
5°	1379	130
15°	1268	355
25°	1040	474
35°	689	427
45°	366	287
55°	211	192
65°	131	130
75°	64	69
85°	15	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1393.0
2.5°	1389.1
5°	1378.9
7.5°	1362.2
10°	1337.9
12.5°	1305.9
15°	1267.5
17.5°	1221.4
20°	1168.9
22.5°	1107.5
25°	1039.6
27.5°	962.8
30°	879.6
32.5°	786.1
35°	688.8
37.5°	588.9
40°	496.8
42.5°	423.8
45°	366.2
47.5°	320.1
50°	272.7
52.5°	238.1
55°	211.2
57.5°	188.2
60°	169.0
62.5°	148.5
65°	130.6
67.5°	112.7
70°	97.3
72.5°	80.7
75°	64.0
77.5°	49.9
80°	38.4
82.5°	26.9
85°	15.4
87.5°	7.7
90°	0.0

(END OF REPORT)