

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: P345336

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSMMS 2000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12WD8FSMMS 2000Lm4000K
Description: PR4 WIDE LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1983.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.65 / 1.65 / 1.6
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

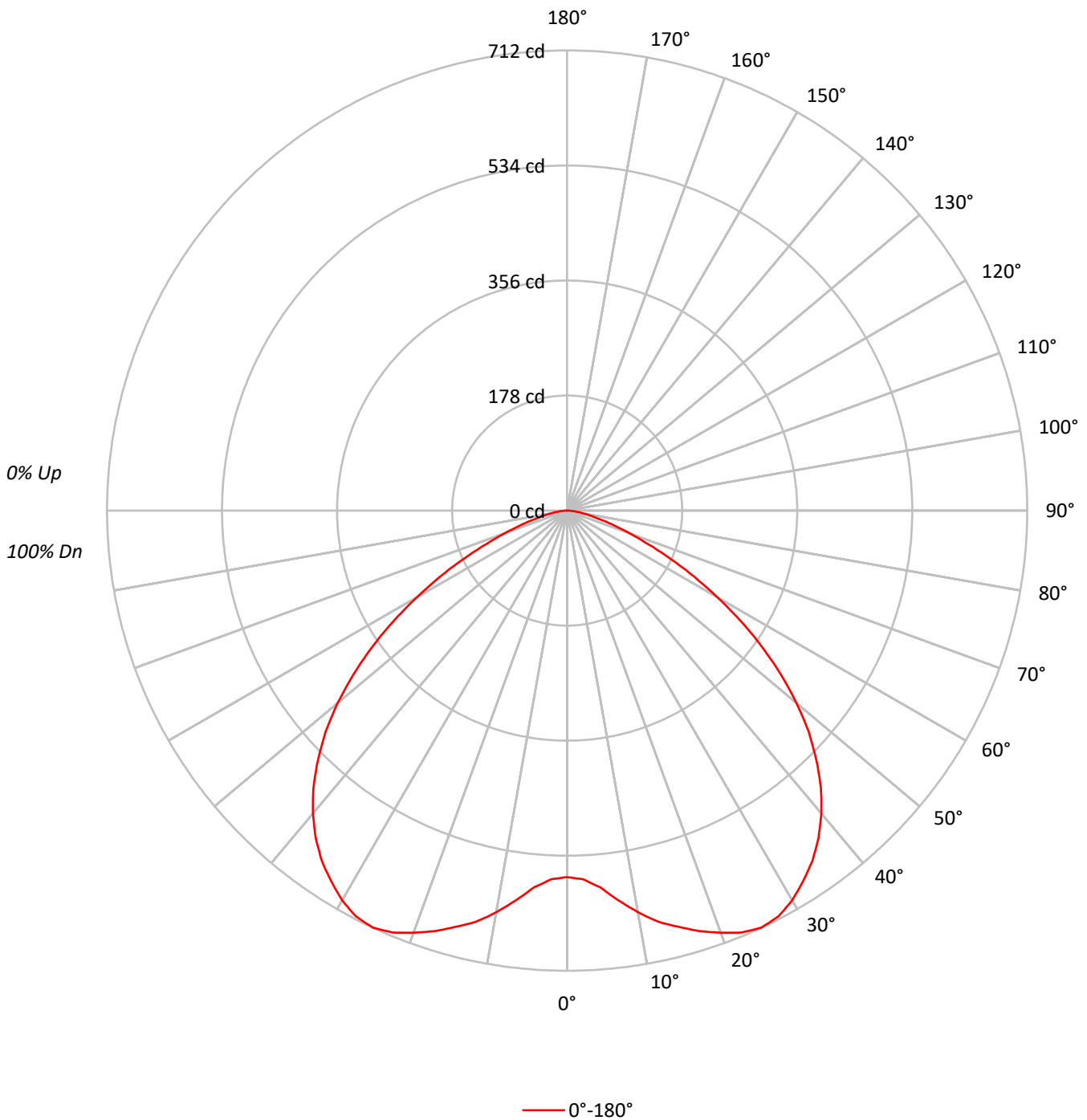
Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	99	107	104	100	97	100	97	94		96	93	91		92	90	89	87
2	101	94	87	82	98	92	86	81	88	83	79		85	81	77		82	79	76	74
3	92	83	75	69	90	81	74	69	78	72	67		76	70	66		73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50		61	54	50		59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44		55	48	43		53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49604
5°	51365
10°	56054
15°	60391
20°	64702
25°	68687
30°	70337
35°	70667
40°	69869
45°	67454
50°	63059
55°	56226
60°	47024
65°	36572
70°	26188
75°	18182
80°	12895
85°	9032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	2.9
10°-20°	189.7	9.6
20°-30°	326.6	16.5
30°-40°	412.7	20.8
40°-50°	418.8	21.1
50°-60°	328.2	16.6
60°-70°	177.5	9.0
70°-80°	60.6	3.1
80°-90°	11.5	0.6
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°	573.7	28.9
0°-40°	986.4	49.7
0°-60°	1733.4	87.4
0°-90°	1983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	567	
5°	585	57
15°	667	190
25°	712	327
35°	662	413
45°	545	419
55°	369	328
65°	177	177
75°	54	61
85°	9	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	567.1
2.5°	570.9
5°	585.0
7.5°	608.1
10°	631.1
12.5°	651.6
15°	666.9
17.5°	682.3
20°	695.1
22.5°	706.6
25°	711.7
27.5°	707.9
30°	696.4
32.5°	679.7
35°	661.8
37.5°	638.8
40°	611.9
42.5°	581.2
45°	545.3
47.5°	506.9
50°	463.4
52.5°	417.3
55°	368.7
57.5°	318.7
60°	268.8
62.5°	221.5
65°	176.7
67.5°	135.7
70°	102.4
72.5°	75.5
75°	53.8
77.5°	37.1
80°	25.6
82.5°	16.6
85°	9.0
87.5°	3.8
90°	0.0

(END OF REPORT)