

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: P345372

Luminaire Tested: **PR4FS12D010 PR4M12WD8FSBZ 2000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS12D010 PR4M12WD8FSBZ 2000Lm4000K
Description: PR4 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1711.6 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.57
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

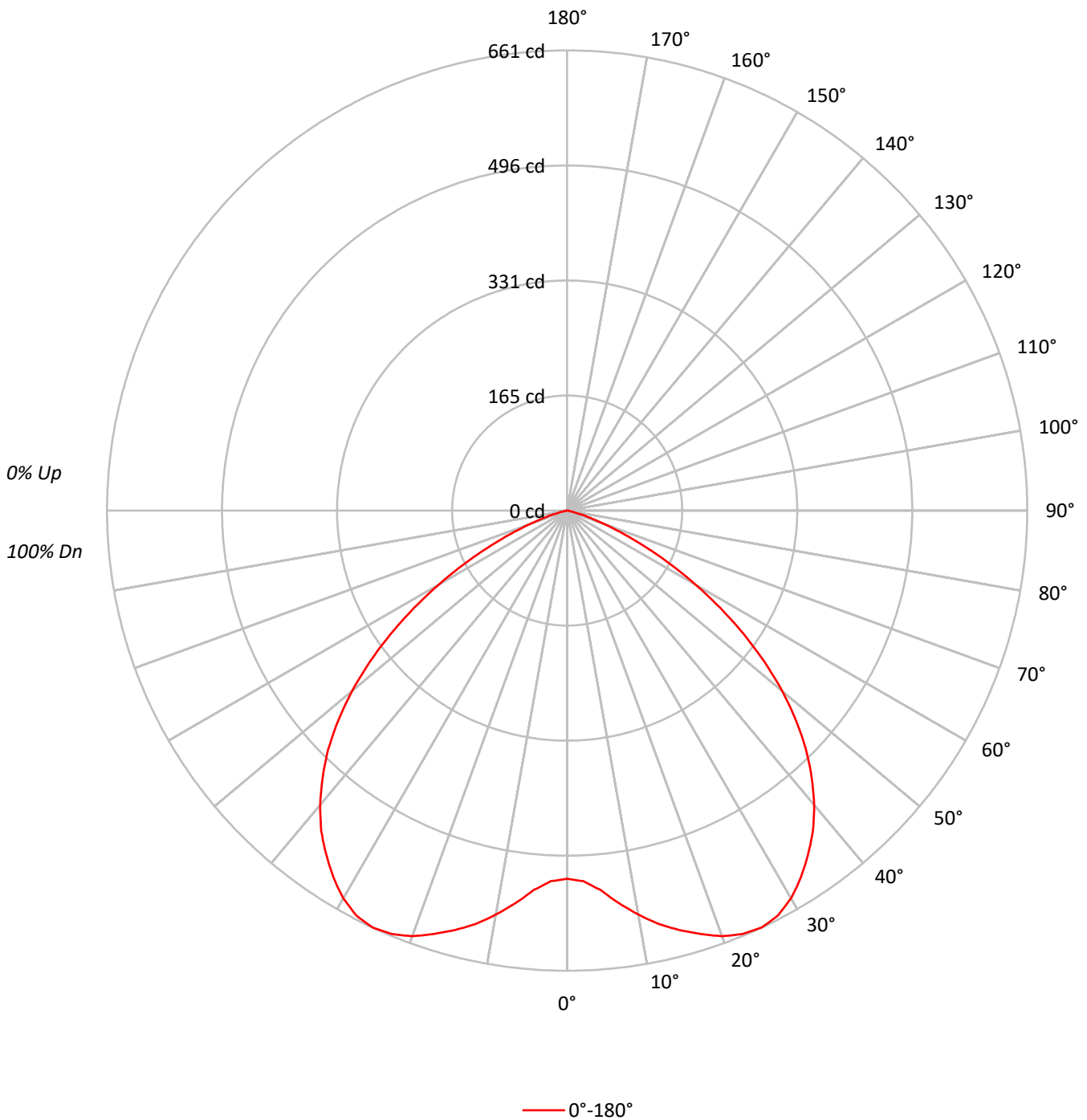
Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	63	51	42	37	62	50	42	37	49	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	46271
5°	48020
10°	52332
15°	56488
20°	60560
25°	63785
30°	64944
35°	64421
40°	63029
45°	60044
50°	54908
55°	47274
60°	37419
65°	25975
70°	14731
75°	6049
80°	1310
85°	2609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	3.1
10°-20°	177.3	10.4
20°-30°	303.3	17.7
30°-40°	376.8	22.0
40°-50°	371.9	21.7
50°-60°	275.9	16.1
60°-70°	127.4	7.4
70°-80°	23.3	1.4
80°-90°	2.1	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°	534.3	31.2
0°-40°	911.0	53.2
0°-60°	1558.8	91.1
0°-90°	1711.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1711.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	529	
5°	547	54
15°	624	177
25°	661	303
35°	603	377
45°	485	372
55°	310	276
65°	126	127
75°	18	23
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	529.0
2.5°	532.8
5°	546.9
7.5°	568.7
10°	589.2
12.5°	608.4
15°	623.8
17.5°	637.8
20°	650.6
22.5°	658.3
25°	660.9
27.5°	655.8
30°	643.0
32.5°	625.0
35°	603.3
37.5°	580.2
40°	552.0
42.5°	520.0
45°	485.4
47.5°	445.7
50°	403.5
52.5°	357.3
55°	310.0
57.5°	261.3
60°	213.9
62.5°	167.8
65°	125.5
67.5°	88.4
70°	57.6
72.5°	34.6
75°	17.9
77.5°	6.4
80°	2.6
82.5°	2.6
85°	2.6
87.5°	1.3
90°	0.0

(END OF REPORT)