

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: P345272

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSBZ 2000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24MD9FSBZ 2000Lm3500K
Description: PR4 MEDIUM LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1492.8 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1/1/2001
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

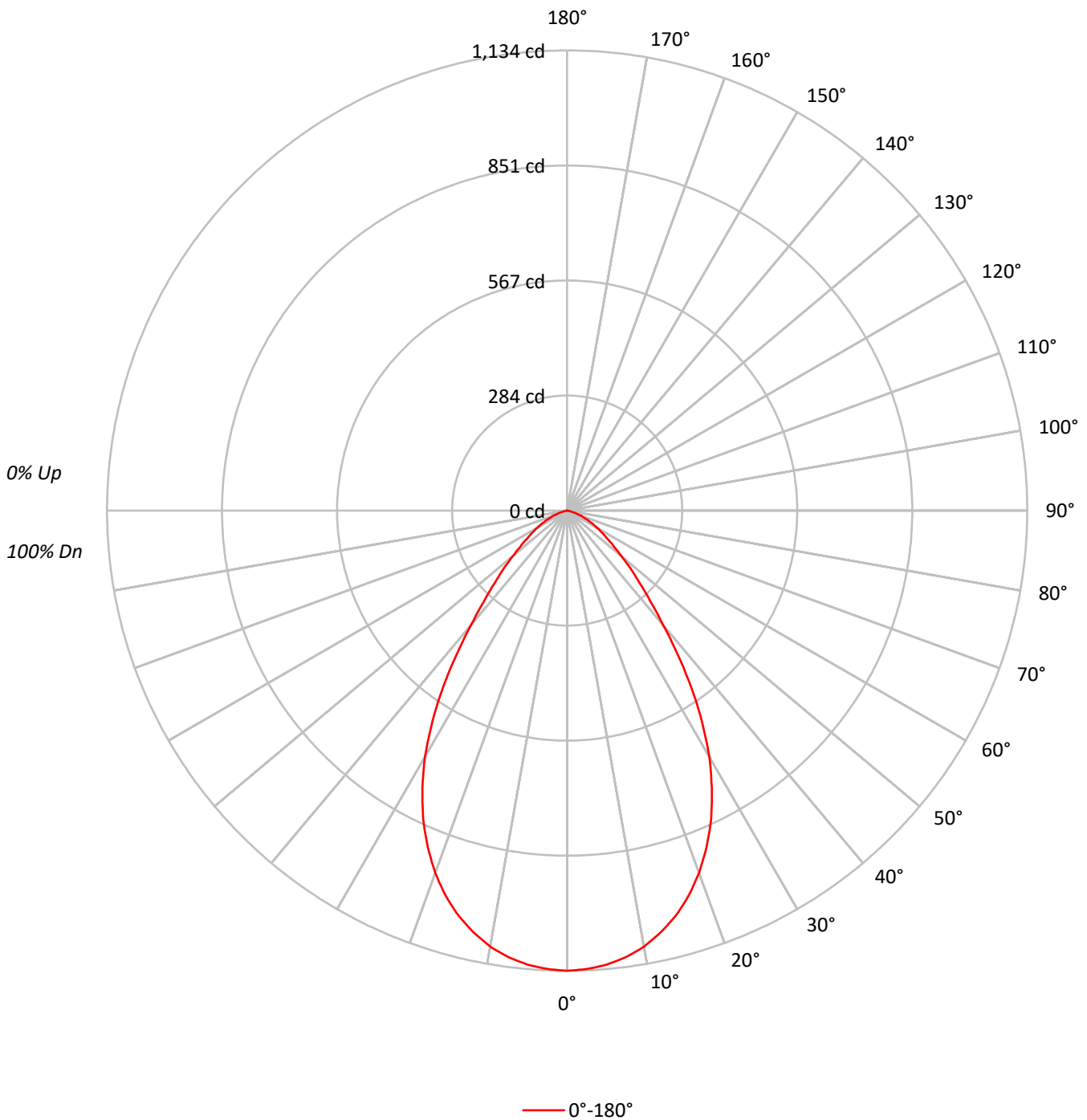
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98		99	97	95		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	98	91	85	80	96	89	84	79	86	82	78		84	80	76		81	78	75	73
4	92	83	76	71	90	82	76	71	79	74	70		77	73	69		75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70	66	62	60
6	81	70	63	58	79	70	63	58	68	62	58		66	61	57		65	60	57	55
7	76	65	58	53	75	65	58	53	63	57	53		62	57	52		61	56	52	51
8	72	61	54	49	70	60	53	49	59	53	49		58	52	48		57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53	48	45	43
10	64	53	46	42	63	53	46	42	52	46	42		51	45	42		50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	99199
5°	98612
10°	96919
15°	93634
20°	88466
25°	81002
30°	70771
35°	57085
40°	41951
45°	31296
50°	23650
55°	18452
60°	15010
65°	11611
70°	8440
75°	4089
80°	1108
85°	1104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	7.1
10°-20°	289.6	19.4
20°-30°	382.5	25.6
30°-40°	331.3	22.2
40°-50°	199.3	13.3
50°-60°	111.0	7.4
60°-70°	56.7	3.8
70°-80°	14.7	1.0
80°-90°	1.5	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°	778.3	52.1
0°-40°	1109.6	74.3
0°-60°	1419.8	95.1
0°-90°	1492.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1492.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1134	
5°	1123	106
15°	1034	290
25°	839	382
35°	535	331
45°	253	199
55°	121	111
65°	56	57
75°	12	15
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1134.1
2.5°	1130.8
5°	1123.1
7.5°	1109.9
10°	1091.2
12.5°	1064.8
15°	1034.0
17.5°	995.5
20°	950.4
22.5°	897.6
25°	839.3
27.5°	772.2
30°	700.7
32.5°	619.3
35°	534.6
37.5°	447.7
40°	367.4
42.5°	303.6
45°	253.0
47.5°	212.3
50°	173.8
52.5°	145.2
55°	121.0
57.5°	102.3
60°	85.8
62.5°	70.4
65°	56.1
67.5°	44.0
70°	33.0
72.5°	22.0
75°	12.1
77.5°	4.4
80°	2.2
82.5°	2.2
85°	1.1
87.5°	1.1
90°	0.0

(END OF REPORT)