

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: P345281

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSBZ 4000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345281
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 PR4M24MD8FSBZ 4000Lm3500K
Description: PR4 MEDIUM LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3273.4 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1/1/2001
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

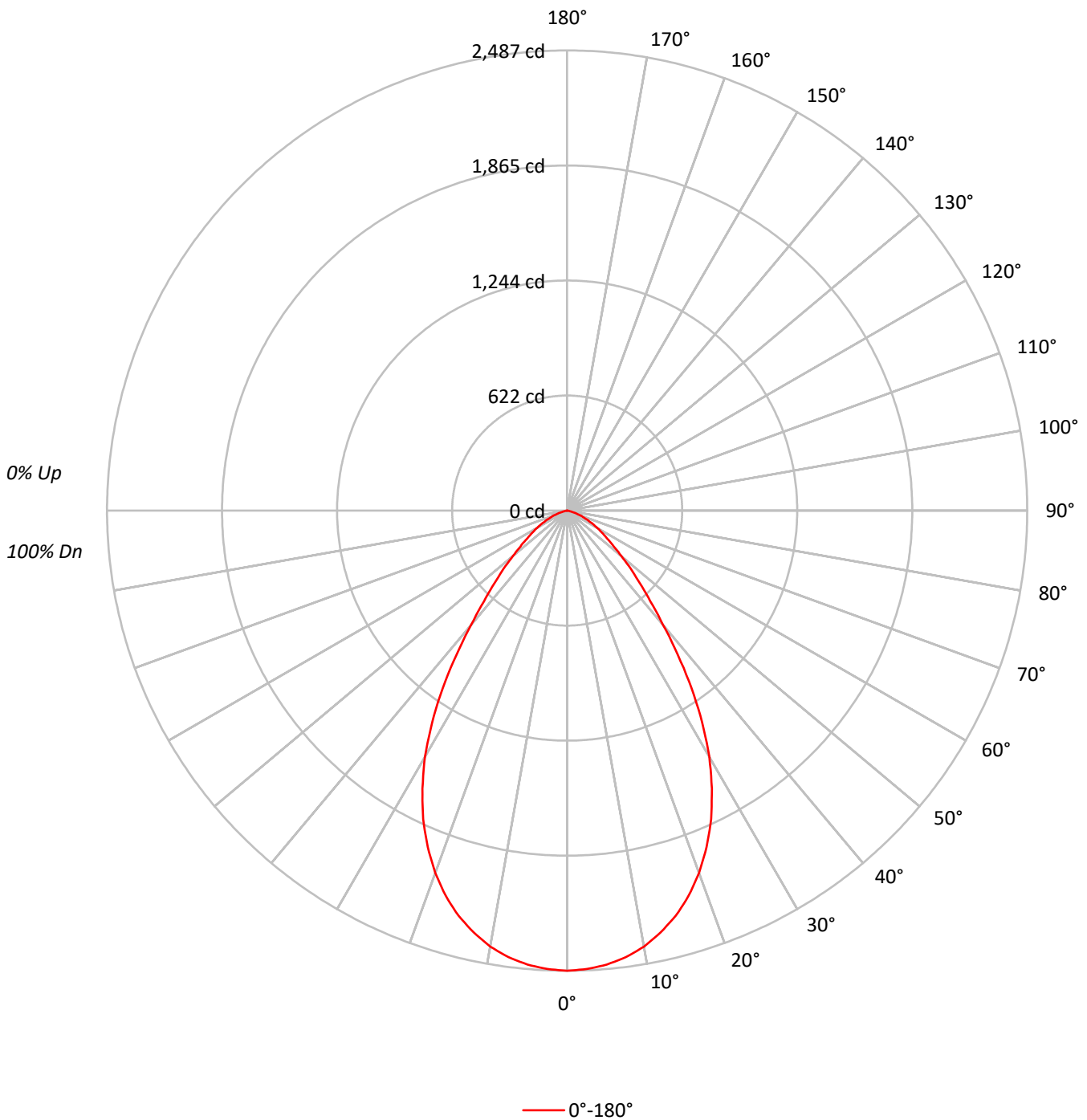
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	217537
5°	216243
10°	212535
15°	205324
20°	193994
25°	177630
30°	155198
35°	125179
40°	91997
45°	68629
50°	51859
55°	40458
60°	32906
65°	25457
70°	18516
75°	8956
80°	2418
85°	2409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.9	7.1
10°-20°	635.1	19.4
20°-30°	838.7	25.6
30°-40°	726.5	22.2
40°-50°	436.9	13.3
50°-60°	243.4	7.4
60°-70°	124.4	3.8
70°-80°	32.2	1.0
80°-90°	3.3	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°	1706.7	52.1
0°-40°	2433.1	74.3
0°-60°	3113.5	95.1
0°-90°	3273.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2487	
5°	2463	233
15°	2267	635
25°	1840	839
35°	1172	726
45°	555	437
55°	265	243
65°	123	124
75°	26	32
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2487.0
2.5°	2479.7
5°	2462.8
7.5°	2433.9
10°	2392.9
12.5°	2335.0
15°	2267.4
17.5°	2183.0
20°	2084.1
22.5°	1968.3
25°	1840.5
27.5°	1693.3
30°	1536.6
32.5°	1358.1
35°	1172.3
37.5°	981.8
40°	805.7
42.5°	665.8
45°	554.8
47.5°	465.5
50°	381.1
52.5°	318.4
55°	265.3
57.5°	224.3
60°	188.1
62.5°	154.4
65°	123.0
67.5°	96.5
70°	72.4
72.5°	48.2
75°	26.5
77.5°	9.6
80°	4.8
82.5°	4.8
85°	2.4
87.5°	2.4
90°	0.0

(END OF REPORT)