

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: P345283

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSBZ 4000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345283
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 4000Lm3000K
Description: PR4 MEDIUM LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2557.8 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 1/1/2001
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

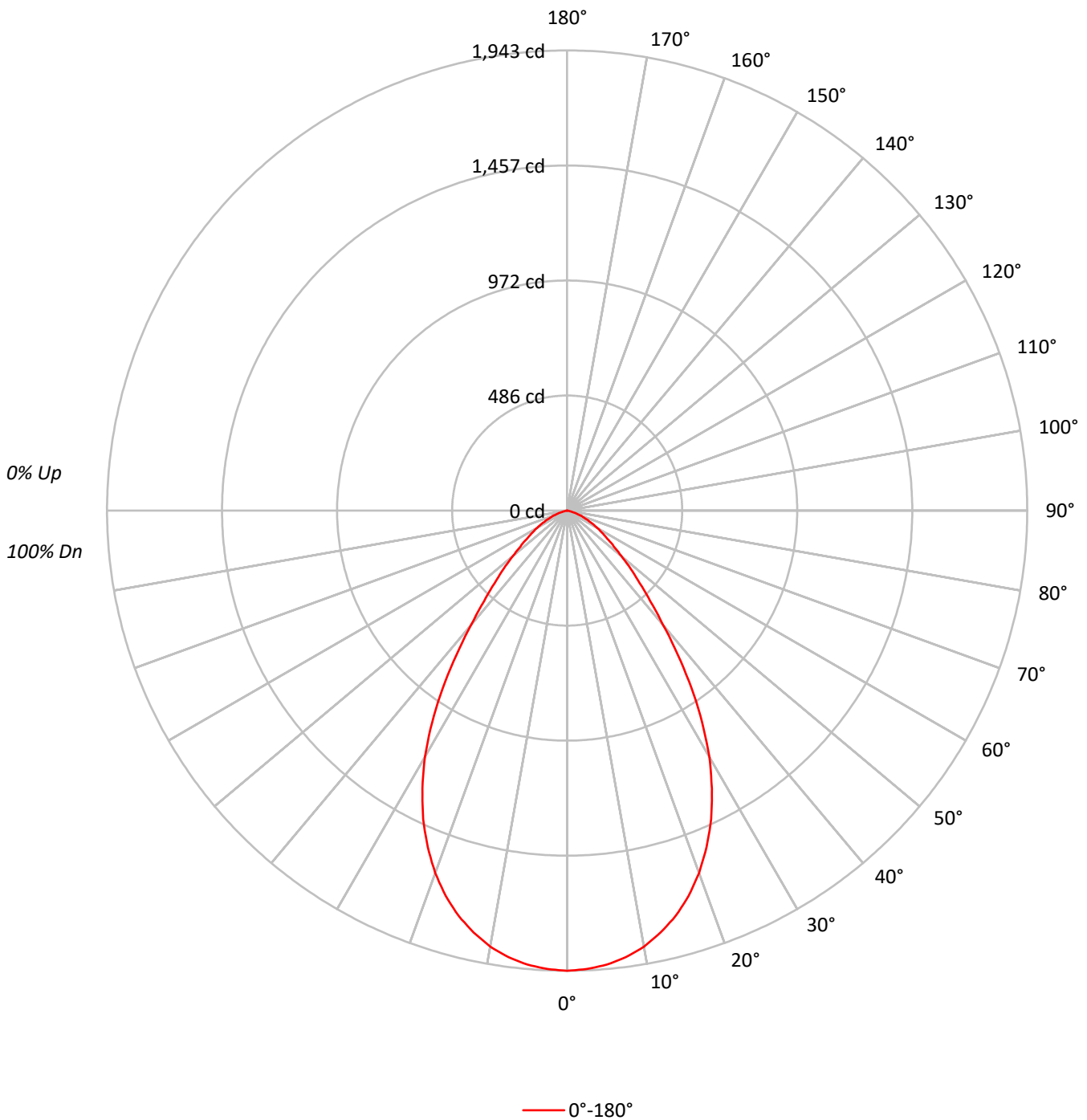
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	169971
5°	168969
10°	166065
15°	160436
20°	151586
25°	138794
30°	121262
35°	97811
40°	71878
45°	53624
50°	40524
55°	31613
60°	25716
65°	19890
70°	14450
75°	6996
80°	1914
85°	1907



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	7.1
10°-20°	496.2	19.4
20°-30°	655.4	25.6
30°-40°	567.6	22.2
40°-50°	341.4	13.3
50°-60°	190.2	7.4
60°-70°	97.2	3.8
70°-80°	25.2	1.0
80°-90°	2.6	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°	1333.6	52.1
0°-40°	1901.2	74.3
0°-60°	2432.8	95.1
0°-90°	2557.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2557.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1943	
5°	1924	182
15°	1772	496
25°	1438	655
35°	916	568
45°	434	341
55°	207	190
65°	96	97
75°	21	25
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1943.2
2.5°	1937.6
5°	1924.4
7.5°	1901.8
10°	1869.7
12.5°	1824.5
15°	1771.7
17.5°	1705.8
20°	1628.5
22.5°	1538.0
25°	1438.1
27.5°	1323.1
30°	1200.6
32.5°	1061.2
35°	916.0
37.5°	767.1
40°	629.5
42.5°	520.2
45°	433.5
47.5°	363.8
50°	297.8
52.5°	248.8
55°	207.3
57.5°	175.3
60°	147.0
62.5°	120.6
65°	96.1
67.5°	75.4
70°	56.5
72.5°	37.7
75°	20.7
77.5°	7.5
80°	3.8
82.5°	3.8
85°	1.9
87.5°	1.9
90°	0.0

(END OF REPORT)