

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: P345277

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSBZ 3000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345277
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 3000Lm3000K
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: 1782.7 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 1/1/2001
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

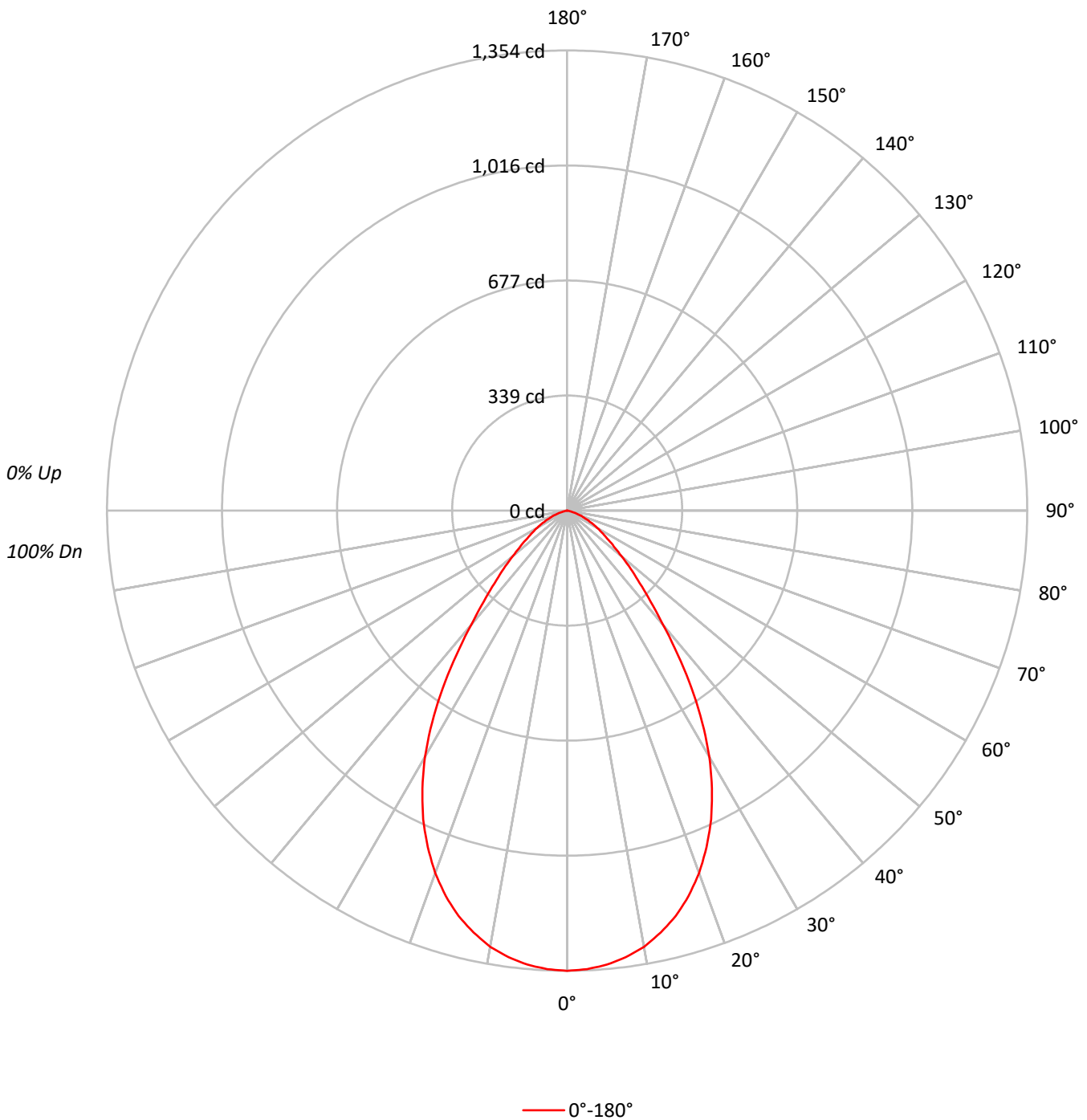
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	118469
5°	117762
10°	115749
15°	111817
20°	105649
25°	96734
30°	84518
35°	68169
40°	50104
45°	37370
50°	28250
55°	22036
60°	17931
65°	13867
70°	10076
75°	4900
80°	1310
85°	1305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	7.1
10°-20°	345.9	19.4
20°-30°	456.8	25.6
30°-40°	395.6	22.2
40°-50°	238.0	13.3
50°-60°	132.6	7.4
60°-70°	67.7	3.8
70°-80°	17.6	1.0
80°-90°	1.8	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°	929.5	52.1
0°-40°	1325.1	74.3
0°-60°	1695.6	95.1
0°-90°	1782.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1354	
5°	1341	127
15°	1235	346
25°	1002	457
35°	638	396
45°	302	238
55°	144	133
65°	67	68
75°	14	18
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1354.4
2.5°	1350.4
5°	1341.2
7.5°	1325.5
10°	1303.2
12.5°	1271.6
15°	1234.8
17.5°	1188.9
20°	1135.0
22.5°	1071.9
25°	1002.3
27.5°	922.2
30°	836.8
32.5°	739.6
35°	638.4
37.5°	534.7
40°	438.8
42.5°	362.6
45°	302.1
47.5°	253.5
50°	207.6
52.5°	173.4
55°	144.5
57.5°	122.2
60°	102.5
62.5°	84.1
65°	67.0
67.5°	52.5
70°	39.4
72.5°	26.3
75°	14.5
77.5°	5.3
80°	2.6
82.5°	2.6
85°	1.3
87.5°	1.3
90°	0.0

(END OF REPORT)