

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: P345284

Luminaire Tested: **PR4FS24D010 PR4M24MD9FSBZ 4000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345284
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 4000Lm3500K
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: 2800.1 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 1/1/2001
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

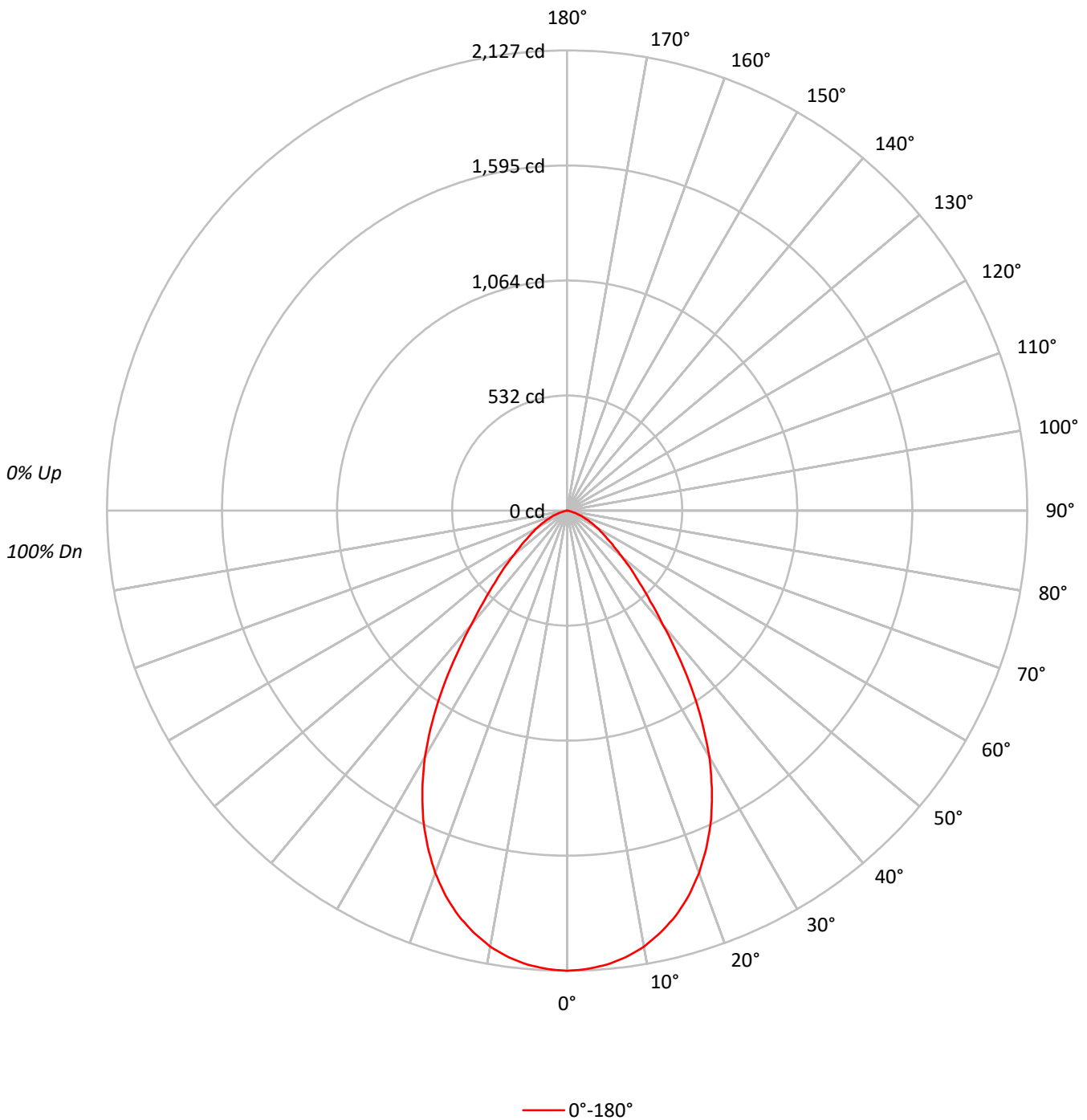
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	186074
5°	184976
10°	181794
15°	175631
20°	165939
25°	151939
30°	132756
35°	107079
40°	78695
45°	58708
50°	44362
55°	34617
60°	28148
65°	21773
70°	15831
75°	7672
80°	2065
85°	2108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	7.1
10°-20°	543.2	19.4
20°-30°	717.5	25.6
30°-40°	621.4	22.2
40°-50°	373.8	13.3
50°-60°	208.3	7.4
60°-70°	106.4	3.8
70°-80°	27.6	1.0
80°-90°	2.8	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°	1459.9	52.1
0°-40°	2081.3	74.3
0°-60°	2663.3	95.1
0°-90°	2800.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2800.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2127	
5°	2107	199
15°	1940	543
25°	1574	717
35°	1003	621
45°	475	374
55°	227	208
65°	105	106
75°	23	28
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2127.3
2.5°	2121.1
5°	2106.7
7.5°	2081.9
10°	2046.8
12.5°	1997.3
15°	1939.5
17.5°	1867.3
20°	1782.7
22.5°	1683.7
25°	1574.3
27.5°	1448.5
30°	1314.4
32.5°	1161.7
35°	1002.8
37.5°	839.8
40°	689.2
42.5°	569.5
45°	474.6
47.5°	398.2
50°	326.0
52.5°	272.4
55°	227.0
57.5°	191.9
60°	160.9
62.5°	132.1
65°	105.2
67.5°	82.5
70°	61.9
72.5°	41.3
75°	22.7
77.5°	8.3
80°	4.1
82.5°	4.1
85°	2.1
87.5°	2.1
90°	0.0

(END OF REPORT)