

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: P345238

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSMMS 3000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24MD8FSMMS 3000Lm3000K
Description: PR4 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2311.6 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.02
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

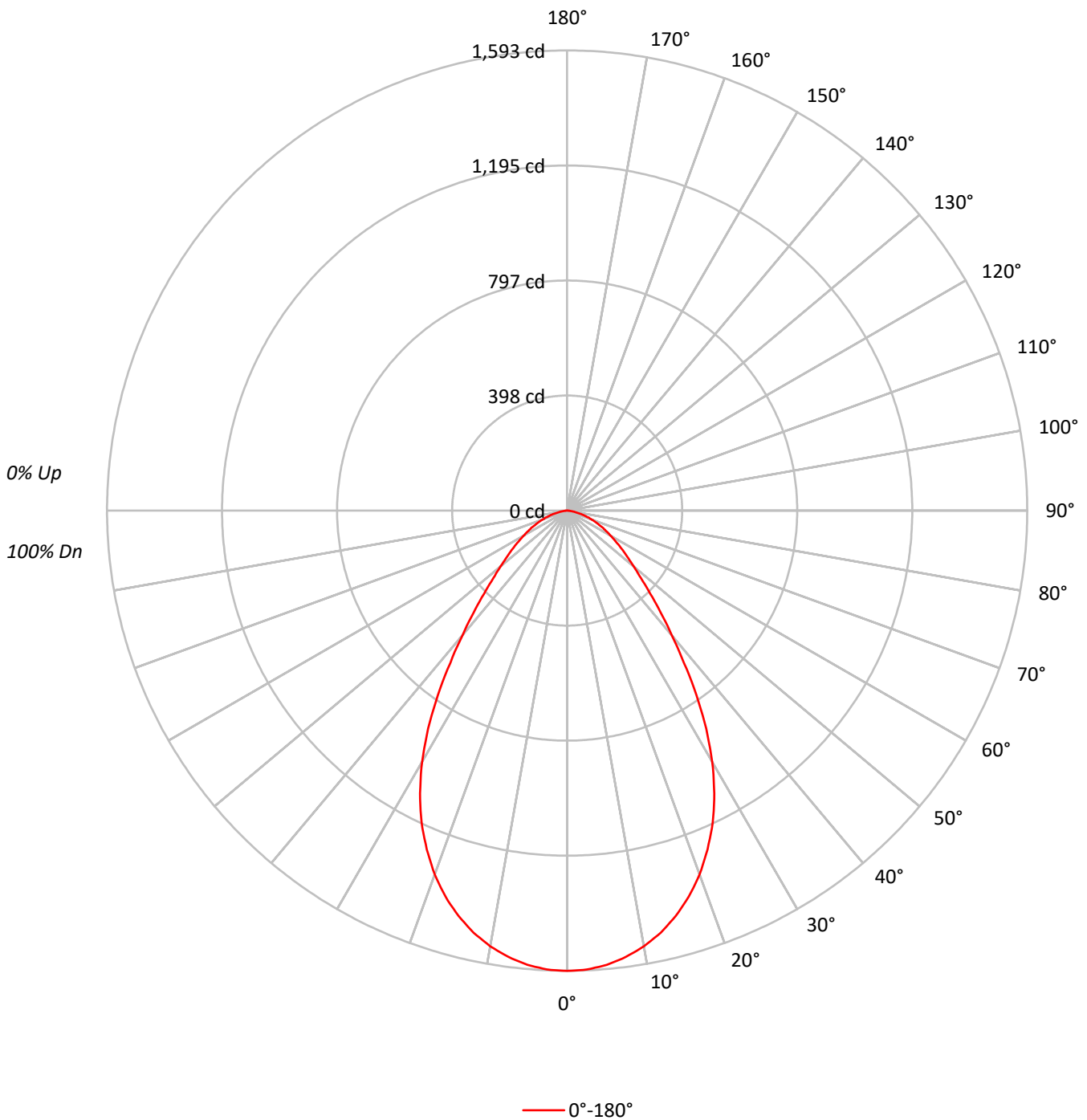
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	139374
5°	138580
10°	136017
15°	131549
20°	124796
25°	115081
30°	101486
35°	83374
40°	64445
45°	50358
50°	40769
55°	35075
60°	30439
65°	26927
70°	23222
75°	18419
80°	12946
85°	7627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	6.5
10°-20°	407.3	17.6
20°-30°	543.7	23.5
30°-40°	485.4	21.0
40°-50°	319.6	13.8
50°-60°	207.1	9.0
60°-70°	129.2	5.6
70°-80°	59.2	2.6
80°-90°	10.9	0.5
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°	1100.2	47.6
0°-40°	1585.6	68.6
0°-60°	2112.3	91.4
0°-90°	2311.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2311.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1593	
5°	1578	149
15°	1453	407
25°	1192	544
35°	781	485
45°	407	320
55°	230	207
65°	130	129
75°	54	59
85°	8	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1593.4
2.5°	1590.4
5°	1578.3
7.5°	1558.6
10°	1531.4
12.5°	1496.6
15°	1452.7
17.5°	1401.2
20°	1340.7
22.5°	1269.6
25°	1192.4
27.5°	1103.1
30°	1004.8
32.5°	895.8
35°	780.8
37.5°	664.3
40°	564.4
42.5°	479.7
45°	407.1
47.5°	346.5
50°	299.6
52.5°	261.8
55°	230.0
57.5°	199.7
60°	174.0
62.5°	151.3
65°	130.1
67.5°	109.0
70°	90.8
72.5°	72.6
75°	54.5
77.5°	39.3
80°	25.7
82.5°	15.1
85°	7.6
87.5°	4.5
90°	0.0

(END OF REPORT)