

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: P345246

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSMMS 4000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345246
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 4000Lm4000K
Description: PR4 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3536.5 lumens
Efficiency: N/A
Efficacy: 78.6 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

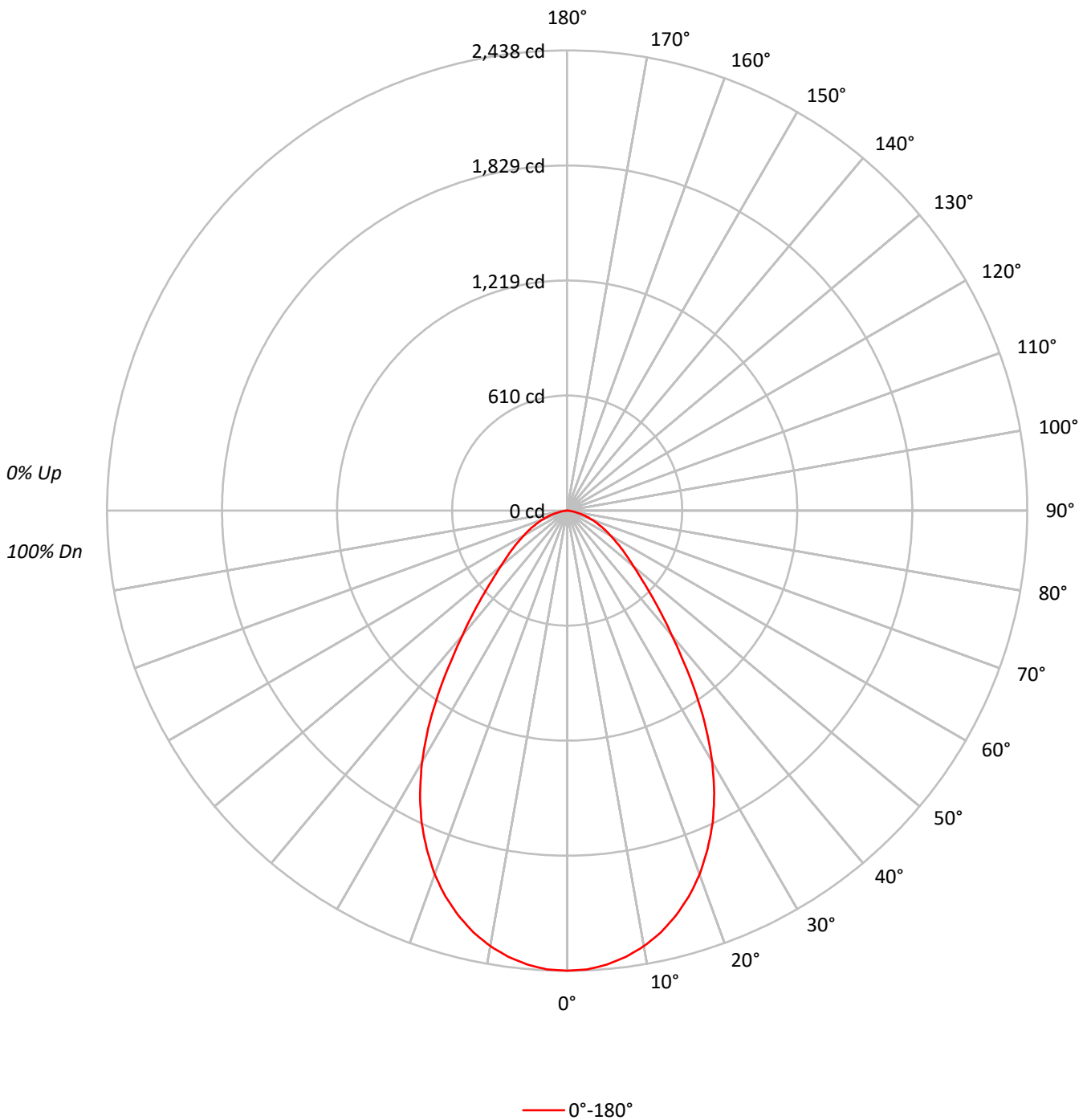
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	213233
5°	212010
10°	208085
15°	201259
20°	190923
25°	176067
30°	155259
35°	127560
40°	98597
45°	77041
50°	62378
55°	53664
60°	46569
65°	41208
70°	35523
75°	28152
80°	19846
85°	11642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.2	6.5
10°-20°	623.2	17.6
20°-30°	831.8	23.5
30°-40°	742.6	21.0
40°-50°	489.0	13.8
50°-60°	316.9	9.0
60°-70°	197.7	5.6
70°-80°	90.5	2.6
80°-90°	16.7	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°	1683.2	47.6
0°-40°	2425.7	68.6
0°-60°	3231.6	91.4
0°-90°	3536.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3536.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2438	
5°	2415	228
15°	2222	623
25°	1824	832
35°	1195	743
45°	623	489
55°	352	317
65°	199	198
75°	83	91
85°	12	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2437.8
2.5°	2433.1
5°	2414.6
7.5°	2384.5
10°	2342.8
12.5°	2289.6
15°	2222.5
17.5°	2143.7
20°	2051.1
22.5°	1942.3
25°	1824.3
27.5°	1687.7
30°	1537.2
32.5°	1370.5
35°	1194.6
37.5°	1016.3
40°	863.5
42.5°	733.9
45°	622.8
47.5°	530.1
50°	458.4
52.5°	400.5
55°	351.9
57.5°	305.6
60°	266.2
62.5°	231.5
65°	199.1
67.5°	166.7
70°	138.9
72.5°	111.1
75°	83.3
77.5°	60.2
80°	39.4
82.5°	23.2
85°	11.6
87.5°	6.9
90°	0.0

(END OF REPORT)