

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: P345319

Luminaire Tested: **PR4FS24D010 PR4M24WD9FSMW 4000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24WD9FSMW 4000Lm3000K
Description: PR4 WIDE LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3128.9 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.61 / 1.61 / 1.58
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

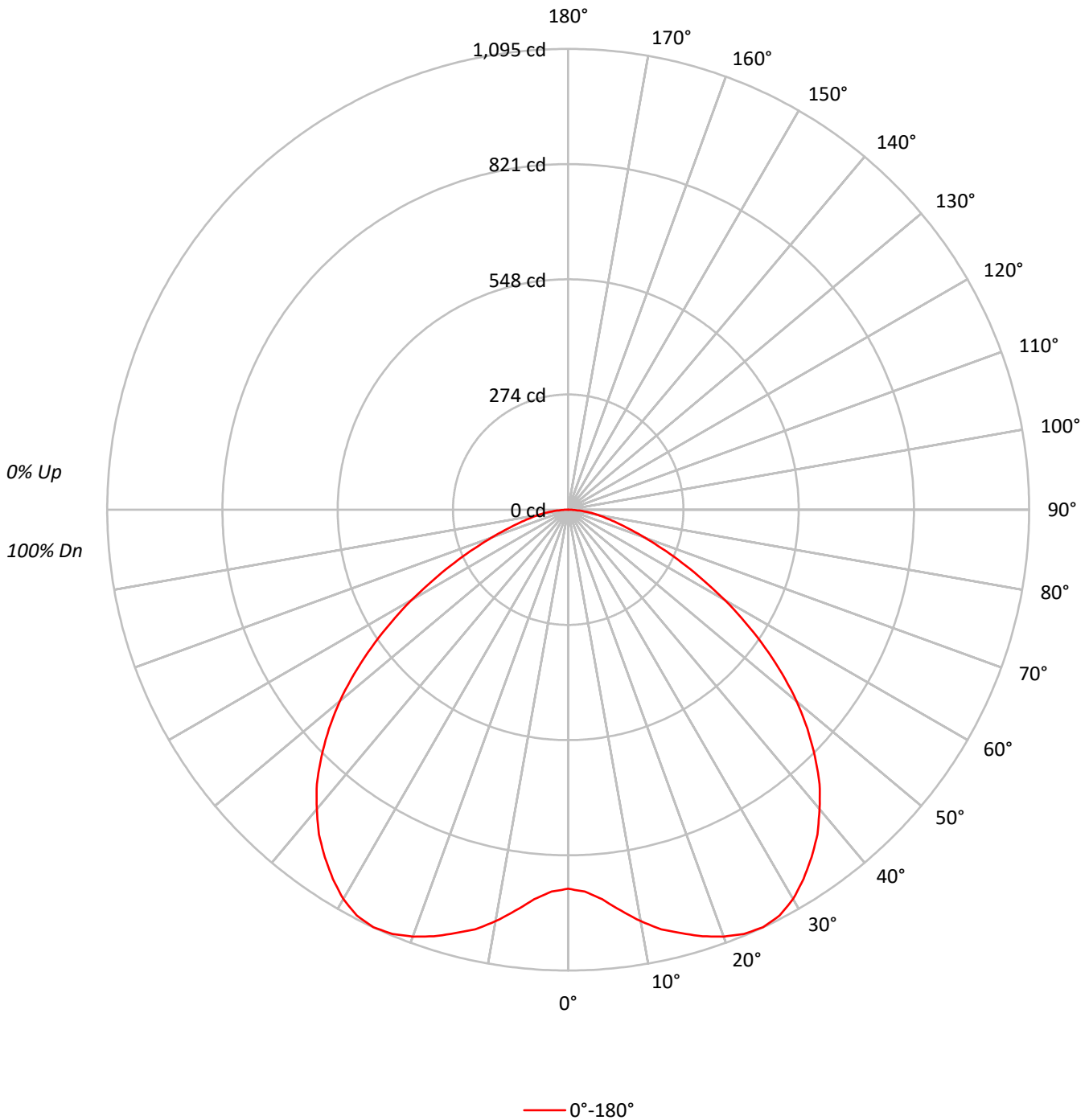
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	78775
5°	81561
10°	88197
15°	94358
20°	100492
25°	105652
30°	107899
35°	107635
40°	106065
45°	102548
50°	96411
55°	87061
60°	75154
65°	61615
70°	49154
75°	40115
80°	36066
85°	30208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	2.9
10°-20°	296.2	9.5
20°-30°	502.9	16.1
30°-40°	629.5	20.1
40°-50°	637.0	20.4
50°-60°	508.9	16.3
60°-70°	298.7	9.5
70°-80°	130.1	4.2
80°-90°	34.8	1.1
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°	889.9	28.4
0°-40°	1519.4	48.6
0°-60°	2665.3	85.2
0°-90°	3128.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3128.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	901	
5°	929	91
15°	1042	296
25°	1095	503
35°	1008	629
45°	829	637
55°	571	509
65°	298	299
75°	119	130
85°	30	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	900.6
2.5°	908.2
5°	928.9
7.5°	960.9
10°	993.0
12.5°	1021.2
15°	1042.0
17.5°	1062.7
20°	1079.6
22.5°	1091.0
25°	1094.7
27.5°	1087.2
30°	1068.3
32.5°	1040.1
35°	1008.0
37.5°	972.2
40°	928.9
42.5°	883.7
45°	829.0
47.5°	770.6
50°	708.5
52.5°	640.6
55°	570.9
57.5°	499.3
60°	429.6
62.5°	359.9
65°	297.7
67.5°	241.2
70°	192.2
72.5°	150.7
75°	118.7
77.5°	92.3
80°	71.6
82.5°	50.9
85°	30.1
87.5°	11.3
90°	0.0

(END OF REPORT)