

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: P345310

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSMW 3000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345310
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 PR4M24WD8FSMW 3000Lm3000K
Description: PR4 WIDE LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2512.9 lumens
Efficiency: N/A
Efficacy: 88.2 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

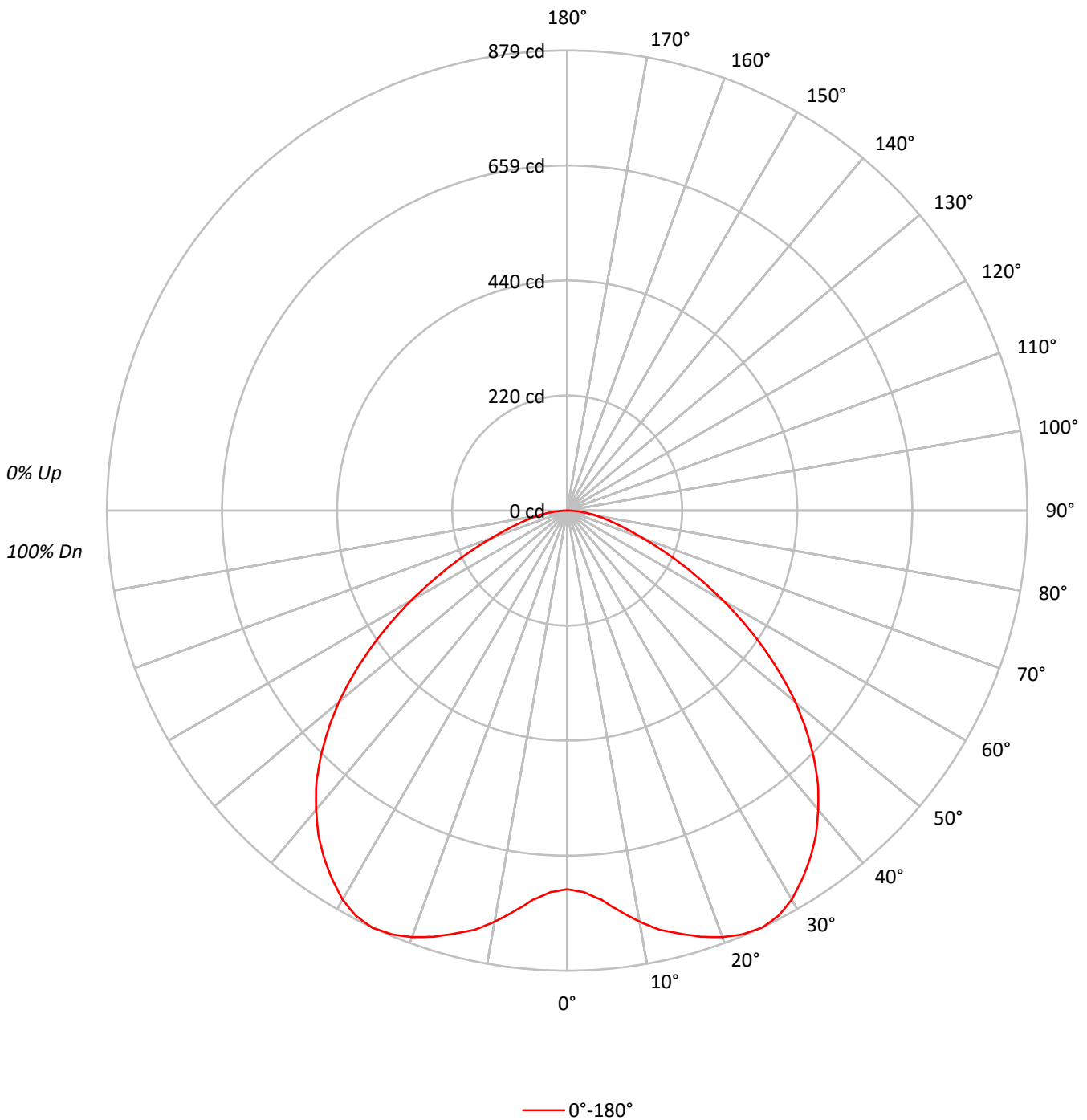
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	63267
5°	65501
10°	70833
15°	75776
20°	80712
25°	84853
30°	86659
35°	86449
40°	85181
45°	82360
50°	77429
55°	69920
60°	60354
65°	49487
70°	39487
75°	32207
80°	28964
85°	24287



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	2.9
10°-20°	237.9	9.5
20°-30°	403.9	16.1
30°-40°	505.6	20.1
40°-50°	511.6	20.4
50°-60°	408.7	16.3
60°-70°	239.9	9.5
70°-80°	104.5	4.2
80°-90°	28.0	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°	714.7	28.4
0°-40°	1220.3	48.6
0°-60°	2140.6	85.2
0°-90°	2512.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	723	
5°	746	73
15°	837	238
25°	879	404
35°	810	506
45°	666	512
55°	458	409
65°	239	240
75°	95	105
85°	24	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	723.3
2.5°	729.4
5°	746.0
7.5°	771.8
10°	797.5
12.5°	820.2
15°	836.8
17.5°	853.5
20°	867.1
22.5°	876.2
25°	879.2
27.5°	873.2
30°	858.0
32.5°	835.3
35°	809.6
37.5°	780.9
40°	746.0
42.5°	709.7
45°	665.8
47.5°	618.9
50°	569.0
52.5°	514.5
55°	458.5
57.5°	401.0
60°	345.0
62.5°	289.0
65°	239.1
67.5°	193.7
70°	154.4
72.5°	121.1
75°	95.3
77.5°	74.2
80°	57.5
82.5°	40.9
85°	24.2
87.5°	9.1
90°	0.0

(END OF REPORT)