

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: P345312

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSMW 3000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345312
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 3000Lm4000K
Description: PR4 WIDE LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2679.6 lumens
Efficiency: N/A
Efficacy: 94.0 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

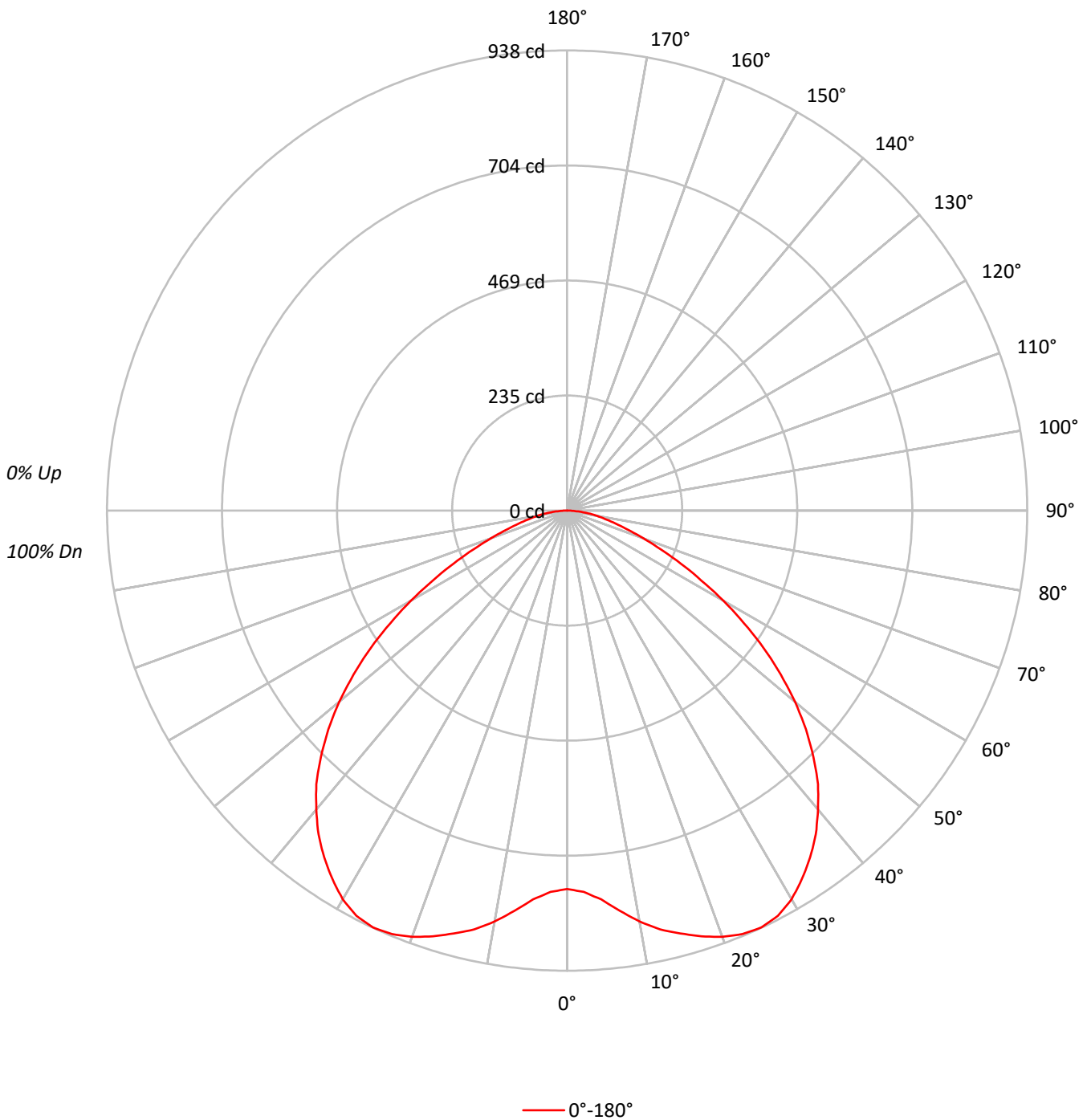
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	67465
5°	69848
10°	75532
15°	80802
20°	86065
25°	90480
30°	92406
35°	92184
40°	90833
45°	87827
50°	82559
55°	74556
60°	64360
65°	52757
70°	42095
75°	34370
80°	30878
85°	25893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	2.9
10°-20°	253.7	9.5
20°-30°	430.6	16.1
30°-40°	539.1	20.1
40°-50°	545.5	20.4
50°-60°	435.8	16.3
60°-70°	255.8	9.5
70°-80°	111.4	4.2
80°-90°	29.9	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°	762.1	28.4
0°-40°	1301.2	48.6
0°-60°	2282.5	85.2
0°-90°	2679.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2679.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	771	
5°	796	78
15°	892	254
25°	938	431
35°	863	539
45°	710	546
55°	489	436
65°	255	256
75°	102	111
85°	26	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	771.3
2.5°	777.8
5°	795.5
7.5°	822.9
10°	850.4
12.5°	874.6
15°	892.3
17.5°	910.1
20°	924.6
22.5°	934.3
25°	937.5
27.5°	931.0
30°	914.9
32.5°	890.7
35°	863.3
37.5°	832.6
40°	795.5
42.5°	756.8
45°	710.0
47.5°	660.0
50°	606.7
52.5°	548.6
55°	488.9
57.5°	427.6
60°	367.9
62.5°	308.2
65°	254.9
67.5°	206.5
70°	164.6
72.5°	129.1
75°	101.7
77.5°	79.1
80°	61.3
82.5°	43.6
85°	25.8
87.5°	9.7
90°	0.0

(END OF REPORT)