

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: P345318

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSMW 4000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345318
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 4000Lm4000K
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: 3844.6 lumens
Efficiency: N/A
Efficacy: 85.4 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

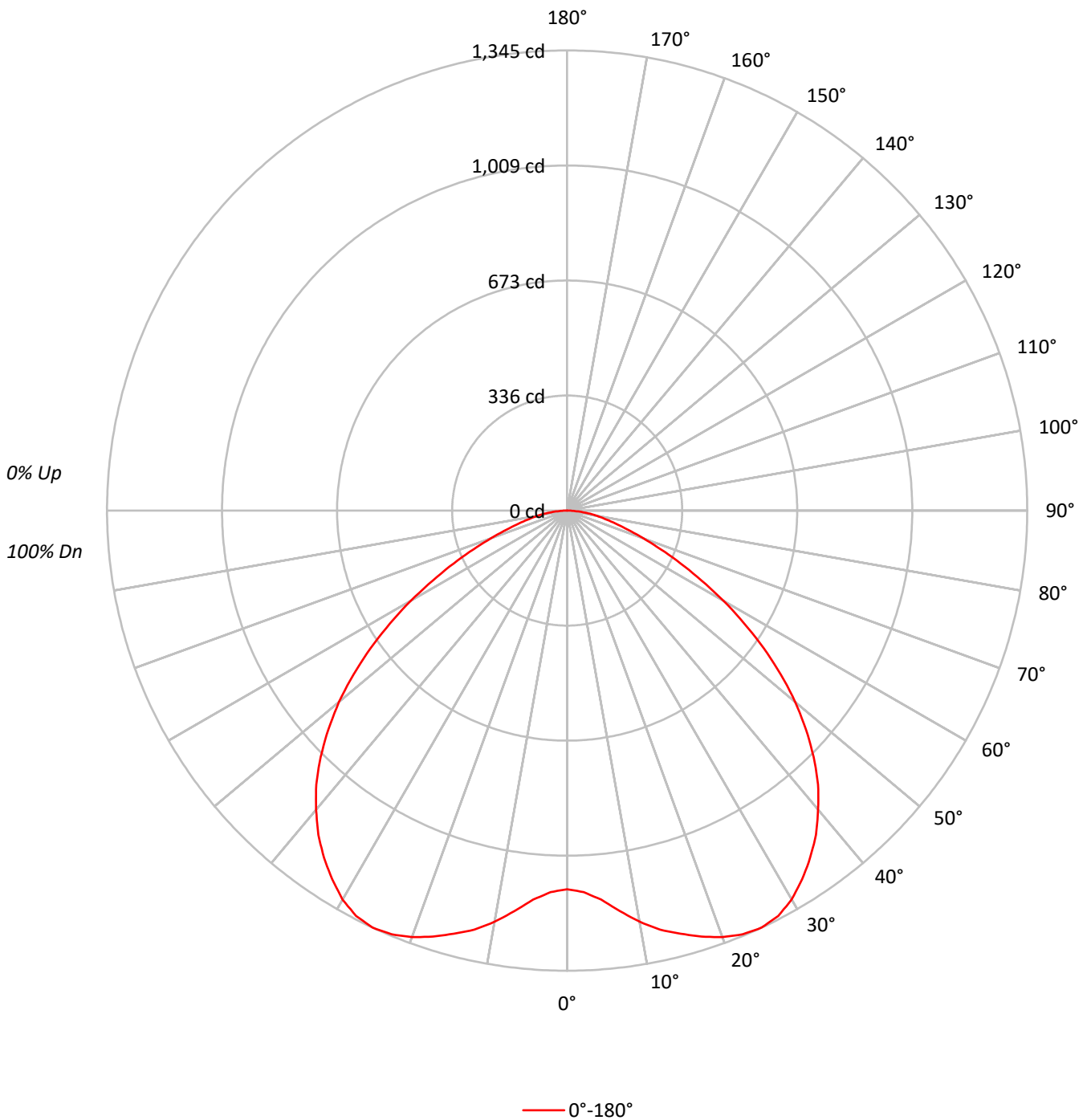
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	96794
5°	100219
10°	108368
15°	115938
20°	123484
25°	129818
30°	132584
35°	132258
40°	130329
45°	126014
50°	118456
55°	106978
60°	92350
65°	75710
70°	60381
75°	49308
80°	44327
85°	37133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	2.9
10°-20°	363.9	9.5
20°-30°	617.9	16.1
30°-40°	773.5	20.1
40°-50°	782.7	20.4
50°-60°	625.4	16.3
60°-70°	367.0	9.5
70°-80°	159.8	4.2
80°-90°	42.8	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°	1093.4	28.4
0°-40°	1866.9	48.6
0°-60°	3274.9	85.2
0°-90°	3844.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1107	
5°	1141	112
15°	1280	364
25°	1345	618
35°	1239	773
45°	1019	783
55°	702	625
65°	366	367
75°	146	160
85°	37	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1106.6
2.5°	1115.9
5°	1141.4
7.5°	1180.7
10°	1220.1
12.5°	1254.8
15°	1280.3
17.5°	1305.7
20°	1326.6
22.5°	1340.5
25°	1345.1
27.5°	1335.8
30°	1312.7
32.5°	1278.0
35°	1238.6
37.5°	1194.6
40°	1141.4
42.5°	1085.8
45°	1018.7
47.5°	946.9
50°	870.5
52.5°	787.2
55°	701.5
57.5°	613.5
60°	527.9
62.5°	442.2
65°	365.8
67.5°	296.3
70°	236.1
72.5°	185.2
75°	145.9
77.5°	113.4
80°	88.0
82.5°	62.5
85°	37.0
87.5°	13.9
90°	0.0

(END OF REPORT)