

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: P345390

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSBZ 4000Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24WD8FSBZ 4000Lm4000K
Description: PR4 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3096.5 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.57
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

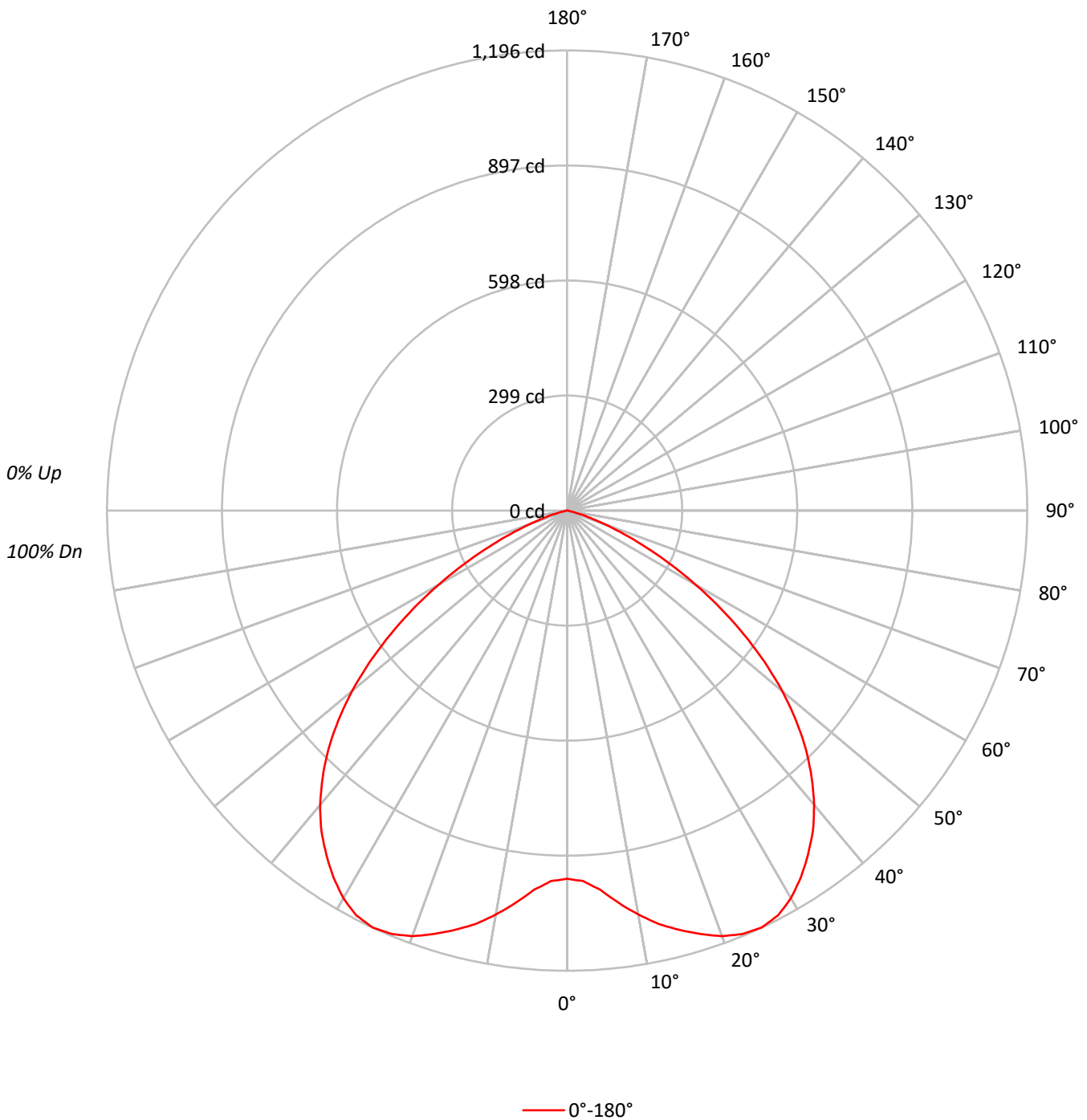
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	63	51	42	37	62	50	42	37	49	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	83708
5°	86873
10°	94672
15°	102182
20°	109568
25°	115390
30°	117484
35°	116540
40°	114035
45°	108634
50°	99324
55°	85506
60°	67701
65°	47003
70°	26674
75°	10950
80°	2317
85°	4617



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	3.1
10°-20°	320.8	10.4
20°-30°	548.7	17.7
30°-40°	681.6	22.0
40°-50°	672.8	21.7
50°-60°	499.1	16.1
60°-70°	230.5	7.4
70°-80°	42.2	1.4
80°-90°	3.8	0.1
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°	966.5	31.2
0°-40°	1648.2	53.2
0°-60°	2820.0	91.1
0°-90°	3096.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3096.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	957	
5°	989	97
15°	1128	321
25°	1196	549
35°	1091	682
45°	878	673
55°	561	499
65°	227	231
75°	32	42
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	957.0
2.5°	963.9
5°	989.4
7.5°	1028.8
10°	1065.9
12.5°	1100.6
15°	1128.4
17.5°	1153.9
20°	1177.1
22.5°	1191.0
25°	1195.6
27.5°	1186.4
30°	1163.2
32.5°	1130.8
35°	1091.4
37.5°	1049.7
40°	998.7
42.5°	940.8
45°	878.2
47.5°	806.4
50°	729.9
52.5°	646.5
55°	560.7
57.5°	472.7
60°	387.0
62.5°	303.5
65°	227.1
67.5°	159.9
70°	104.3
72.5°	62.6
75°	32.4
77.5°	11.6
80°	4.6
82.5°	4.6
85°	4.6
87.5°	2.3
90°	0.0

(END OF REPORT)